RENAULT

8 Electrical equipment

80A BATTERY

80B HEADLIGHTS

81A REAR LIGHTING

81B INTERIOR LIGHTING

81C FUSES

82A ENGINE IMMOBILISER

82B HORN

83A INSTRUMENT PANEL

83C ON-BOARD TELEMATICS SYSTEM

83D CRUISE CONTROL

84A CONTROL - SIGNALS

X85

JULY 2009 **EDITION ANGLAISE**

"The repair procedures given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The procedures may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which the vehicles are constructed".

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85A WIPING - WASHING

86A RADIO

86B CAR PHONE

87B PASSENGER COMPARTMENT CONNECTION UNIT

87C OPENING ELEMENT MANAGEMENT

87D ELECTRIC WINDOWS - SUNROOF

87F PARKING DISTANCE CONTROL

87G ENGINE COMPARTMENT CONNECTION UNIT

88A WIRING HARNESS

88C AIR BAG AND PRETENSIONERS

88D DRIVER'S POSITION

X85

JULY 2009 **EDITION ANGLAISE**

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88D DRIVER'S POSITION

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Tightening torques ▽	
positive battery terminal nut	**6 N.m**
battery bracket nut	**12 N.m**
fuse holder nuts	**6 N.m**
negative battery terminal nut	**6 N.m**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **80A**, **Battery**, **Battery: Precautions for the repair**, page **80A-4**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

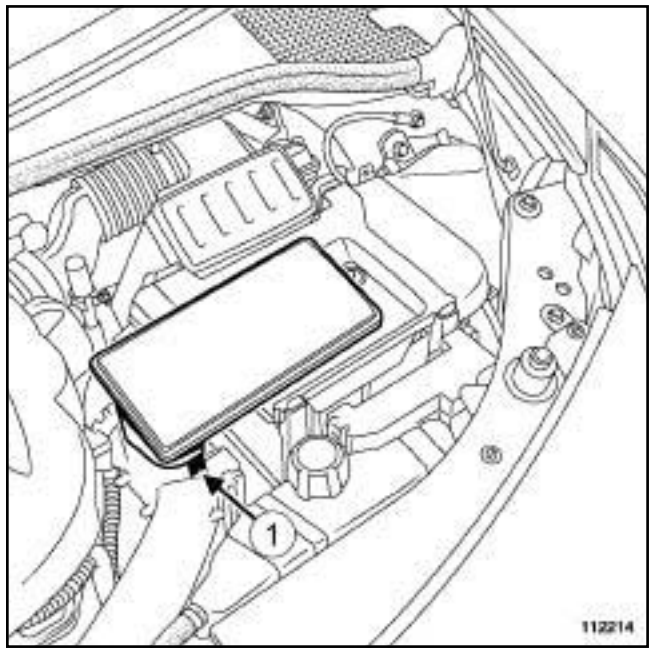
WARNING

Before disconnecting the battery:

- wait for the motor-driven fan assembly to stop,
- wait for the computer to finish saving (**1 minute**).

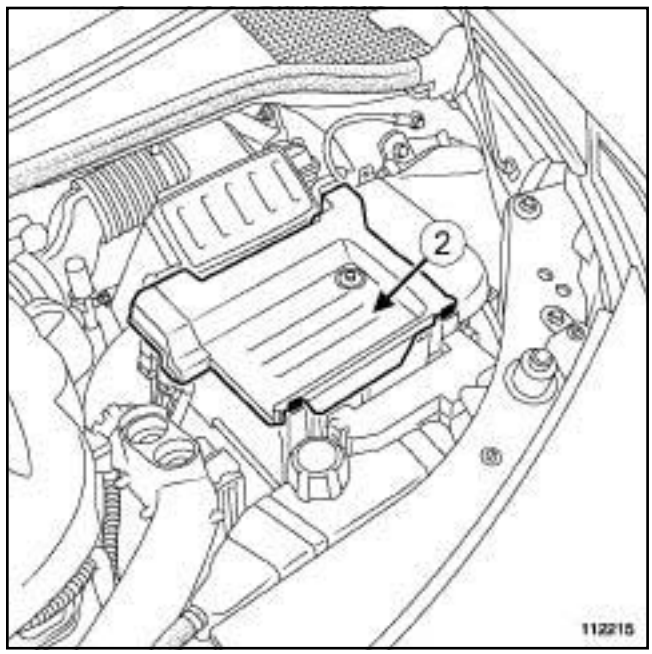
WARNING
The visual indicator cannot be considered reliable in After-Sales; do not use it to determine the state of the battery.

K4J or K4M or M4R



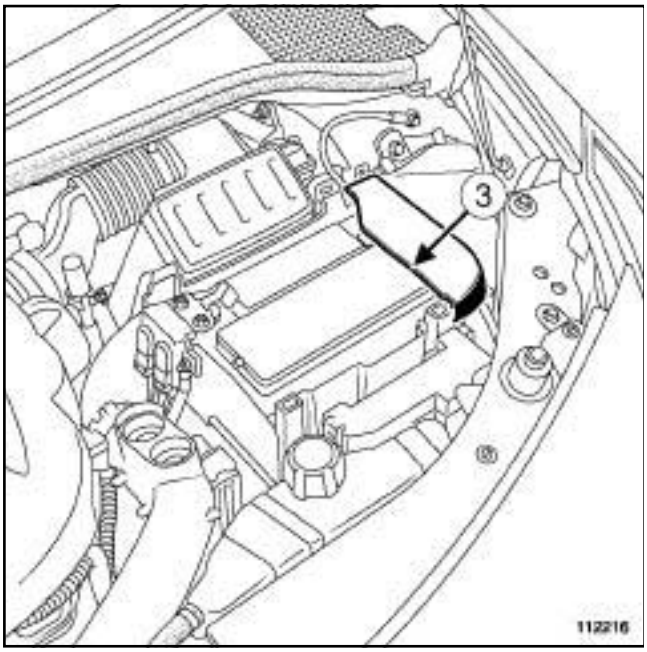
112214

❑ Remove the air resonator by pressing the clip (**1**) .



112215

❑ Remove the large part of the battery cover (**2**) .

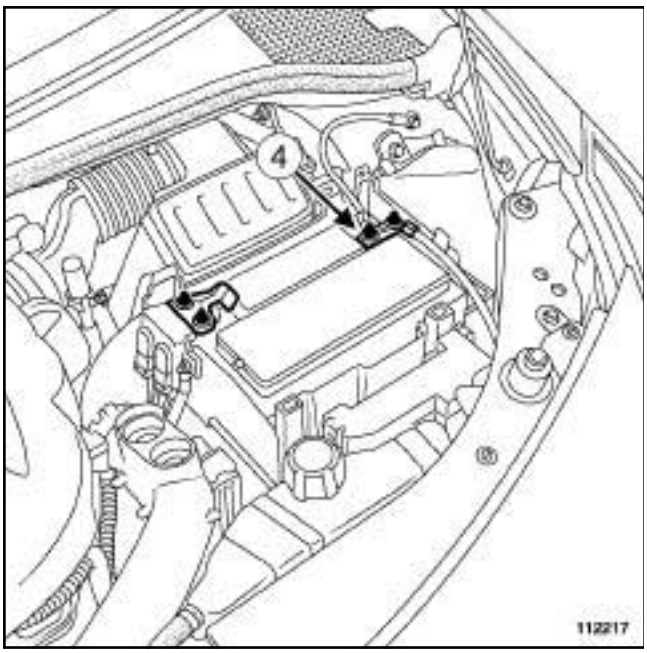


112216

❏ Remove the small part of the battery cover (**3**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

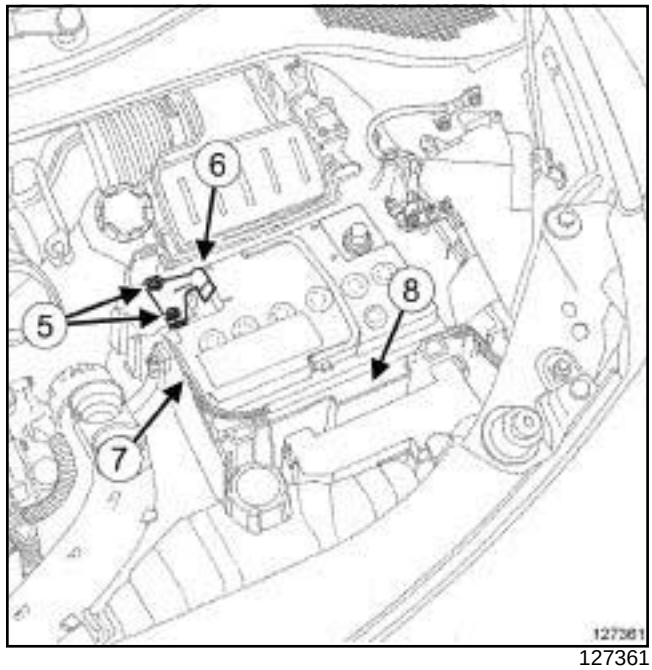
1 - DISCONNECTING



112217

❏ Remove the negative battery terminal (**4**) .

2 - REMOVAL



127361

❏ Remove the nuts (**5**) from the protective fuse holder.

❏ Remove the charge terminal (**6**) .

❏ Disconnect the protective fuse holder.

❏ Unclip the degassing pipe (**7**) .

❏ Remove:

- the nut from the battery bracket,
- the battery bracket (**8**) ,
- the battery.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ Check the battery (see **Battery: Check**) (80A, Battery).

❏ In the event of a replacement, remove the positive battery terminal.

II - REFITTING OPERATION FOR PART CONCERNED

1 - REPLACEMENT

❏ Undo the positive battery terminal.

❏ Push the positive battery terminal fully onto the battery terminal post.

❏ Torque tighten the **positive battery terminal nut (6 N.m)**.

WARNING
Poor contact may cause starting or charging faults, create sparks and cause the battery to explode.

(see **80A**, **Battery**, **Battery: Precautions for the repair**, page **80A-4**) .

2 - REFITTING

❏ Fit the battery into its housing, placing it as close as possible to the engine side.

❏ Refit the battery bracket.

❏ Tighten to torque the **battery bracket nut (12 N.m)**.

❏ Connect the degassing pipe to the battery.

❏ Connect the protective fuse holder to the positive battery terminal.

❏ Position the charge terminal on the positive terminal studs.

❏ Fit the protective fuse holder against the battery heat shield while securing.

❏ Torque tighten the **fuse holder nuts (6 N.m)**.

WARNING
Poor contact may cause starting or charging faults, create sparks and cause the battery to explode.

(see **80A**, **Battery**, **Battery: Precautions for the repair**, page **80A-4**)

3 - CONNECTION

❏ Loosen the negative battery terminal.

❏ Push the negative battery terminal fully onto the battery terminal post.

❏ Torque tighten the **negative battery terminal nut (6 N.m)**.

WARNING
Poor contact may cause starting or charging faults, create sparks and cause the battery to explode.

(see **80A**, **Battery**, **Battery: Precautions for the repair**, page **80A-4**) .

III - FINAL OPERATION

❏ Clip:

- the small part of the battery housing,
- the large part of the battery housing.

K4J or K4M or M4R

❏ Refit the air resonator.

❏ When refitting the battery or each time it is disconnected, carry out a certain number of operations, without using the diagnostic tool, so that the vehicle can operate correctly (see **Battery: Initialisation**) (80A, Battery).

I - SAFETY

1 - DANGER: RISK FROM ACID LINKED TO HANDLING

Sulphuric acid is a highly aggressive and toxic substance which corrodes most metals.

When handling batteries, it is very important to take the following precautions:

- protect your eyes by wearing goggles,

- wear acid-proof gloves and clothing.

IMPORTANT

A battery contains sulphuric acid, a dangerous substance.

If acid splashes on to your clothing, rinse all contaminated areas thoroughly in water.

If it comes into contact with the skin or eyes, seek medical attention.

2 - DANGER: RISK OF EXPLOSION LINKED TO CHARGING AND TO INCORRECT TIGHTENING OF THE TERMINALS.

IMPORTANT

To prevent damaging the battery or even causing it to explode, do not place any heat sources or create any sparks near a charging battery.

WARNING

Incorrect tightening could cause heating of contacts, starting or charging faults, sparking, or could cause the battery to explode.

When a battery is charging, oxygen and hydrogen are produced. The mixture of these two gases is explosive.

The smallest of sparks or heat sources can cause an explosion. The explosion is so strong that the battery can shatter and spray the acid into the surrounding atmosphere.

People nearby are at risk (exploded fragments, acid splashes). Acid splashes are dangerous. They also damage clothing.

Safeguarding against the danger of explosion, which can be caused by handling a battery carelessly, must be taken very seriously.

IMPORTANT

To avoid all risk of sparks, ensure that all electrical consumers are fully switched off.

When a battery is being charged inside a building, switch off the charger before connecting or disconnecting the battery.

Do not place any metallic items on the battery as this may create a short circuit across the terminals.

Never hold a naked flame, welding gun, blowtorch, cigarette or lighted match near to a battery.

II - GENERAL RECOMMENDATIONS

WARNING

These vehicles are equipped with a battery with low water consumption. Topping up the electrolyte is therefore prohibited.

WARNING

Before disconnecting the battery:

- wait for the motor-driven fan assembly to stop,

- wait for the computer to finish saving (**1 minute**).

WARNING

Some vehicles are only fitted with «TB» (low height) batteries. To avoid damaging the bonnet, only refit a battery which is identical to the battery originally fitted.

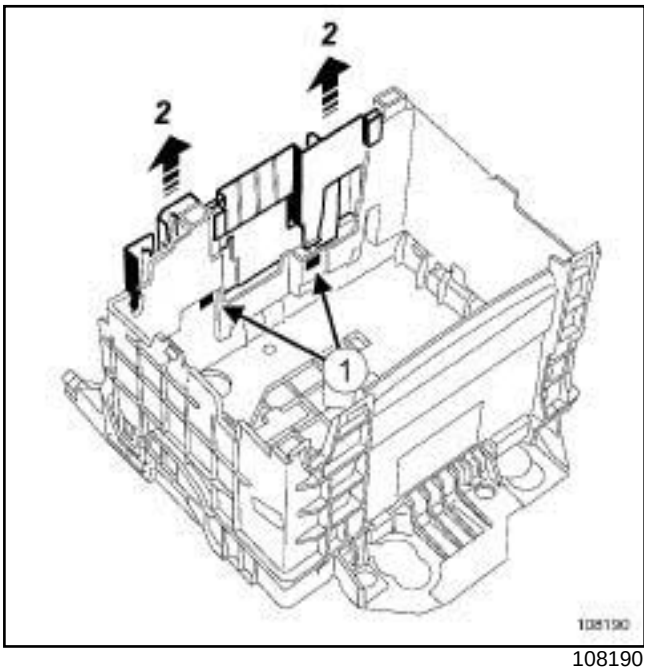
Tightening torques ▽	
bolts (M8) of the battery base shield	**21 Nm**
bolt (M6) of the battery base shield	**8 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

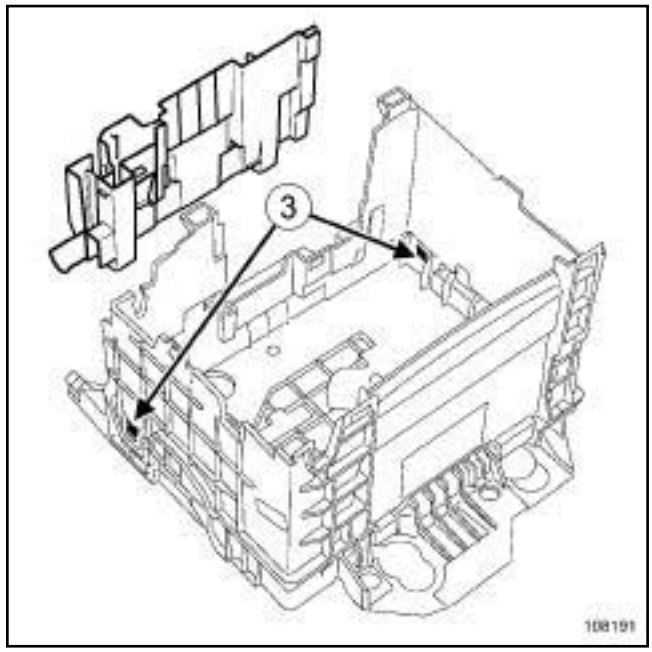
II - OPERATION FOR REMOVAL OF PART CONCERNED



108190

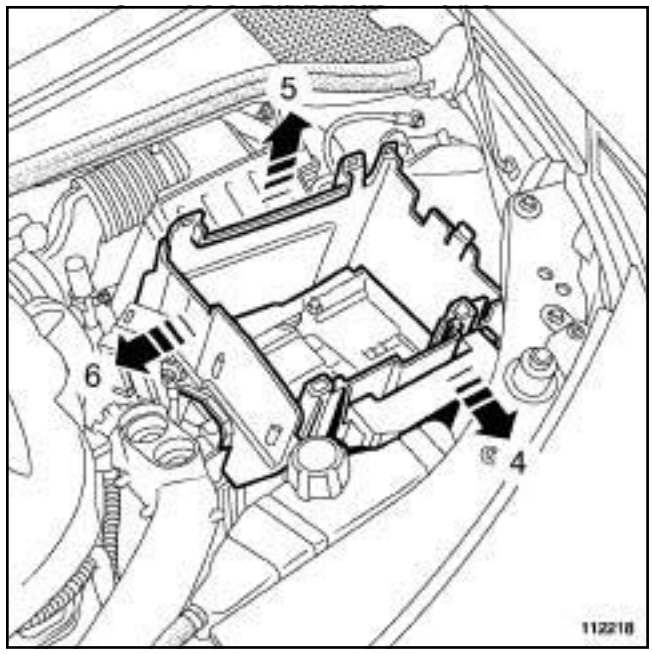
❑ Unclip the power feed fuse board support (**1**) .

❑ Remove the power feed fuse board support (**2**) .



108191

❑ Unclip the battery protective tray at (**3**) .



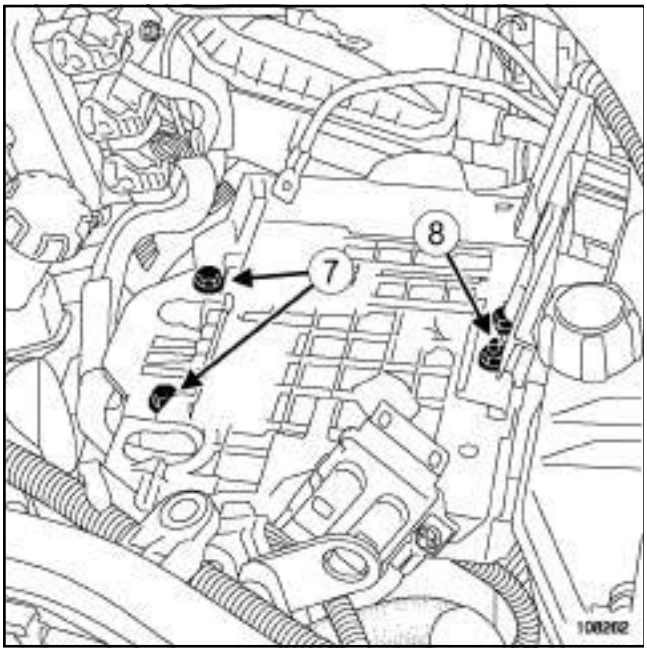
112218

❑ Keep the fuse board support away (**4**) .

❑ Move away the battery protective shield (**5**) and (**6**) .

❑ Remove the battery protective shield.

❑ Remove the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture).



108262

❑ Remove:

- the battery base shield bolts (**7**) (M8),
- the battery base shield bolt (**8**) (M6).

❑ Unclip the harness attached to the battery base shield.

❑ Remove the battery base shield.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❑ Refit the battery base shield and the mounting bolts.

❑ Torque tighten:

- the **bolts (M8) of the battery base shield (21 Nm)**,
- the **bolt (M6) of the battery base shield (8 Nm)**.

❑ Refit the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture).

❑ Clip in place

- the battery protective tray,
- the power supply fuse board support.

❑ Refit the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

DOCUMENTATION PHASE 1

I - LIST OF COMPONENTS

The front lighting consists of:

- headlights (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**)
- halogen bulbs (see **80B**, **Headlights**, **Headlight bulb: Removal - Refitting**, page **80B-17**)
- headlight beam adjustment actuator (see **80B**, **Headlights**, **Remote headlight beam adjustment actuator: Removal - Refitting**, page **80B-31**)
- side indicators (see **80B**, **Headlights**, **Side indicator: Removal - Refitting**, page **80B-30**)

FOG LIGHTS

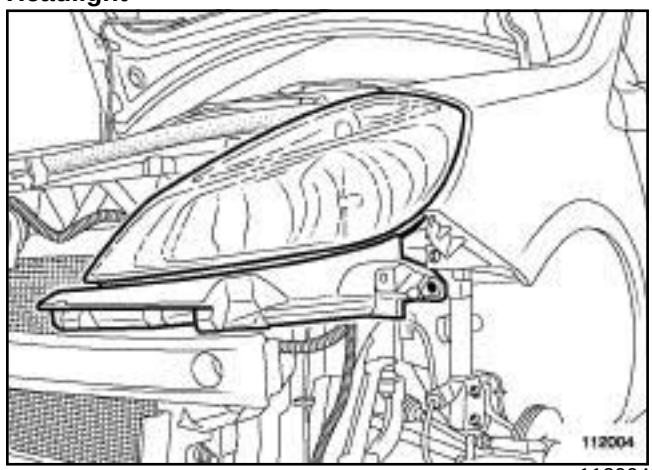
- front fog lights (see **80B**, **Headlights**, **Front fog light: Removal - Refitting**, page **80B-28**)
- front fog lights bulbs (see **80B**, **Headlights**, **Front fog light bulb: Removal - Refitting**, page **80B-27**)

DISCHARGE LAMPS

- xenon bulbs (see **80B**, **Headlights**, **Headlight bulb: Removal - Refitting**, page **80B-17**)
- a headlight beam adjustment front sensor (see **80B**, **Headlights**, **Headlight beam adjustment front sensor: Removal - Refitting**, page **80B-35**)
- a headlight beam adjustment rear sensor (see **80B**, **Headlights**, **Headlight beam adjustment rear sensor: Removal - Refitting**, page **80B-37**)
- xenon headlights high voltage unit (see **80B**, **Headlights**, **Xenon headlight high voltage unit: Removal - Refitting**, page **80B-38**)
- a front lighting computer (see **80B**, **Headlights**, **Front lighting computer: Removal - Refitting**, page **80B-40**)

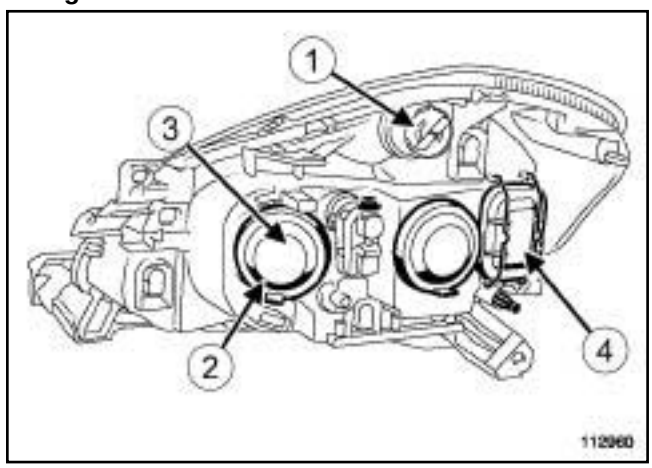
II - POSITION OF THE COMPONENTS

Headlight



112004

Halogen bulbs



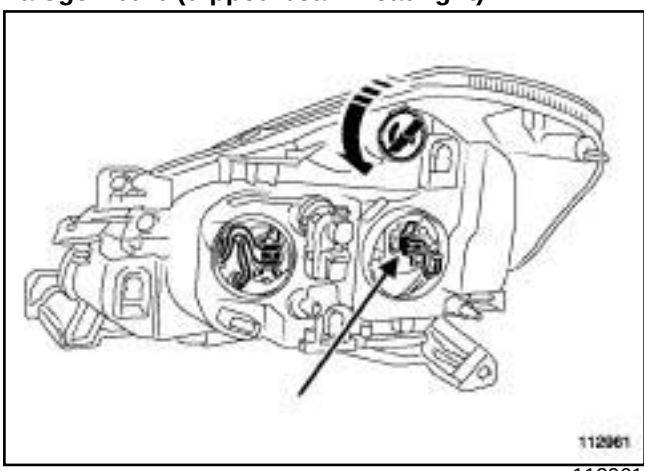
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(**1**) Direction indicator bulb
(**2**) Side light bulbs
(**3**) Main beam headlight bulbs
(**4**) Additional cornering light bulb

DOCUMENTATION PHASE 1

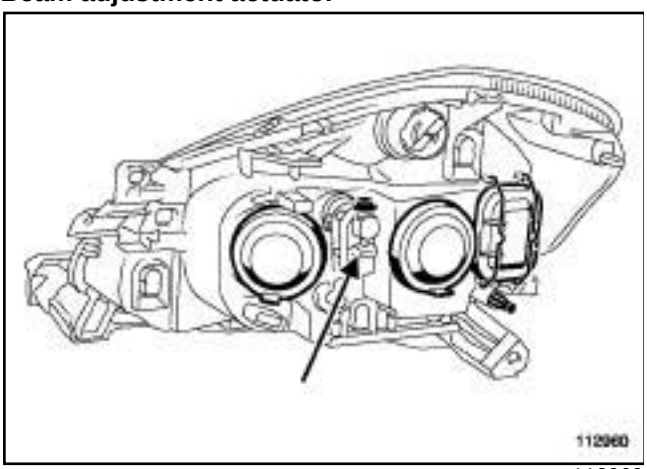
WITHOUT DISCHARGE LAMPS

Halogen bulb (dipped beam headlight)



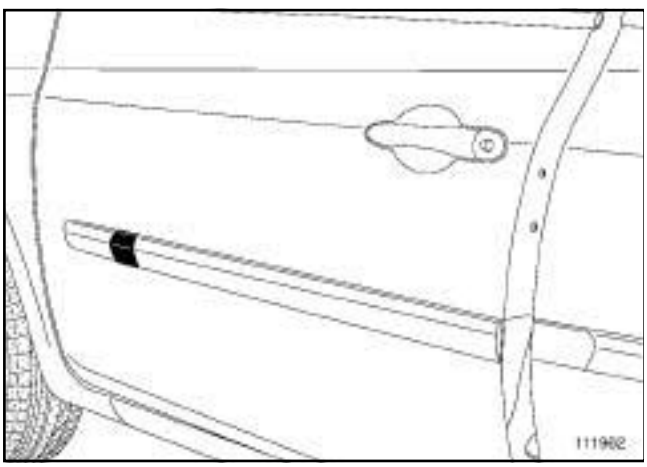
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Beam adjustment actuator



112960

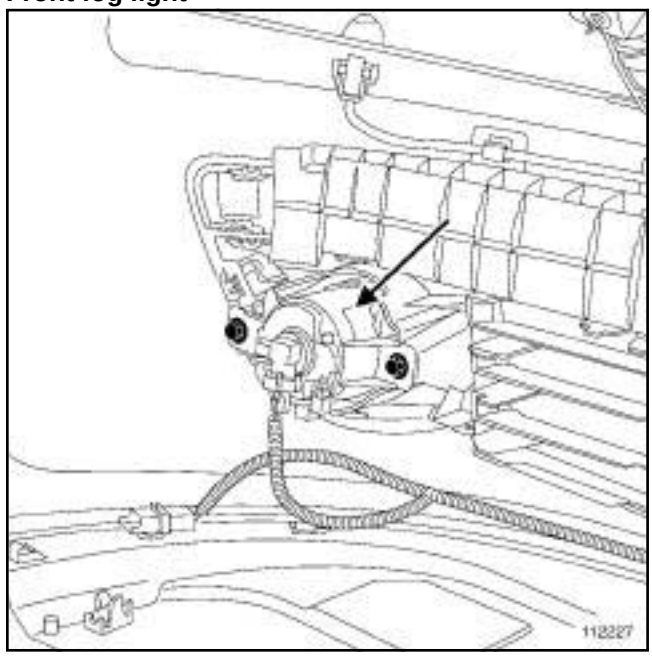
Side indicator



111962

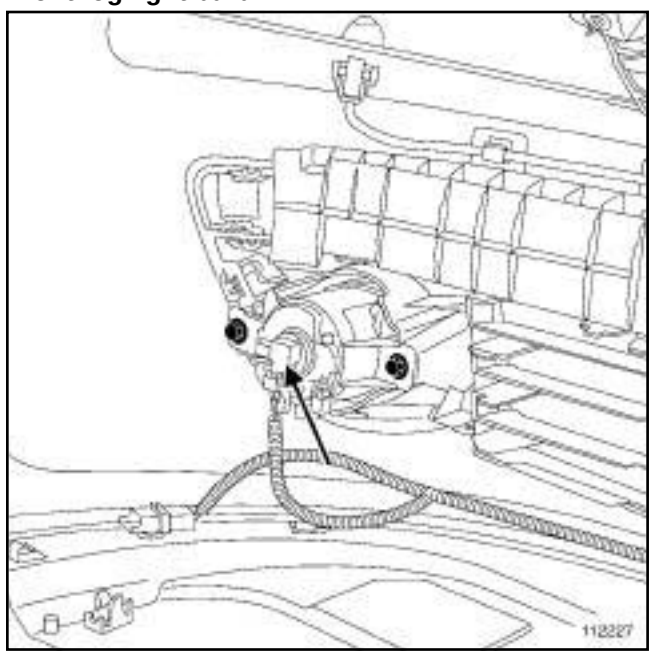
FOG LIGHTS

Front fog light



112227

Front fog light bulb

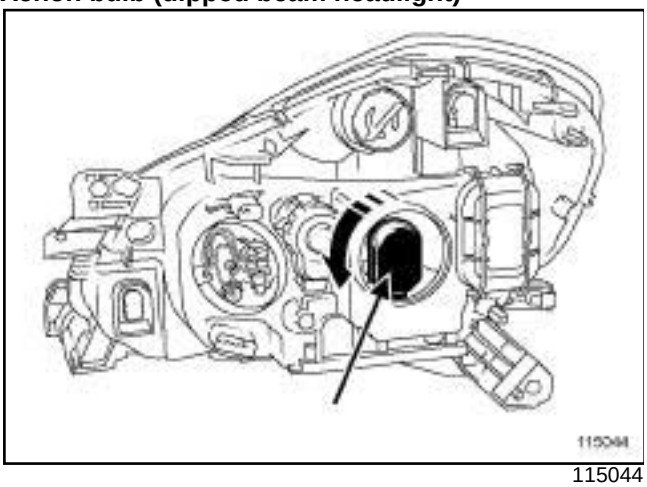


112227

DOCUMENTATION PHASE 1

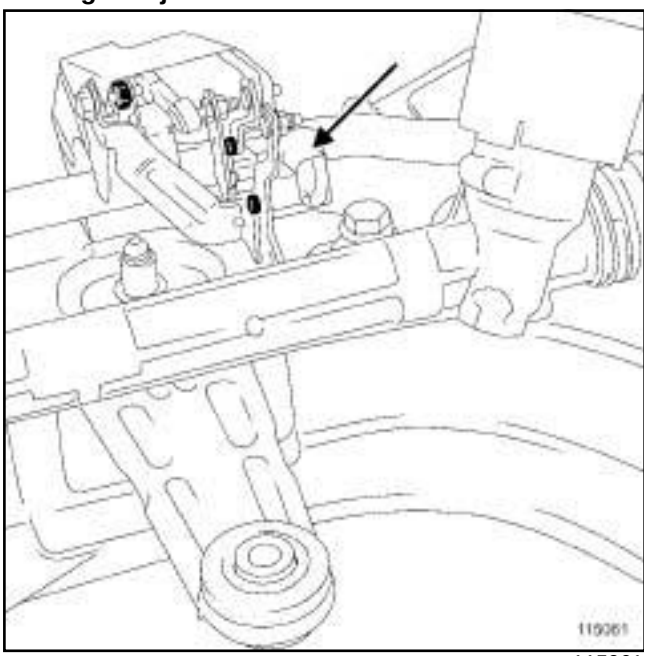
DISCHARGE LAMPS

Xenon bulb (dipped beam headlight)



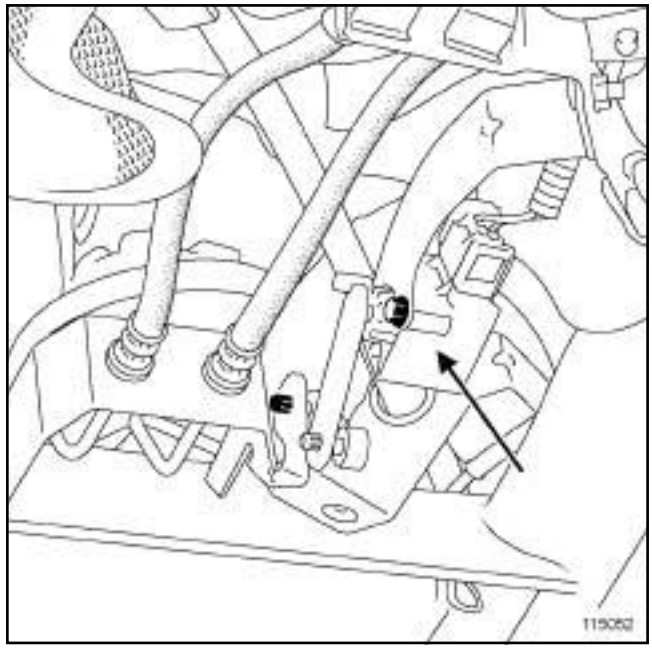
115044

Headlight adjustment front sensor



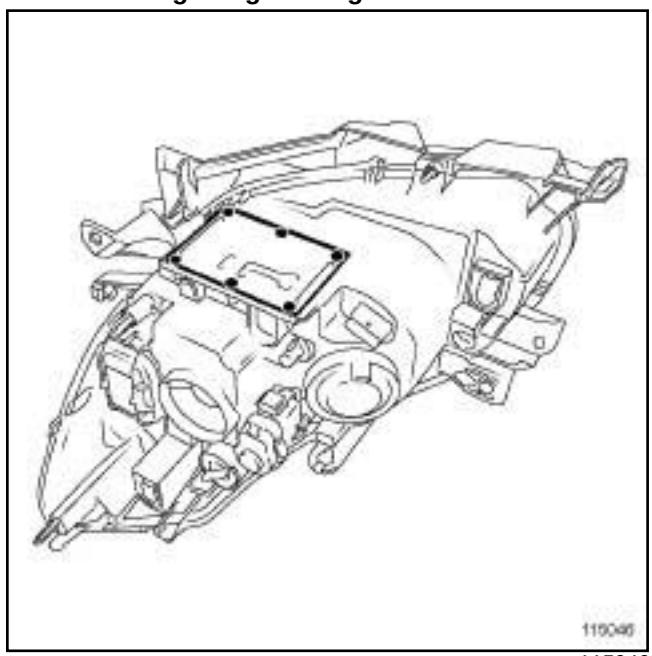
115061

Headlight adjustment rear sensor



115052

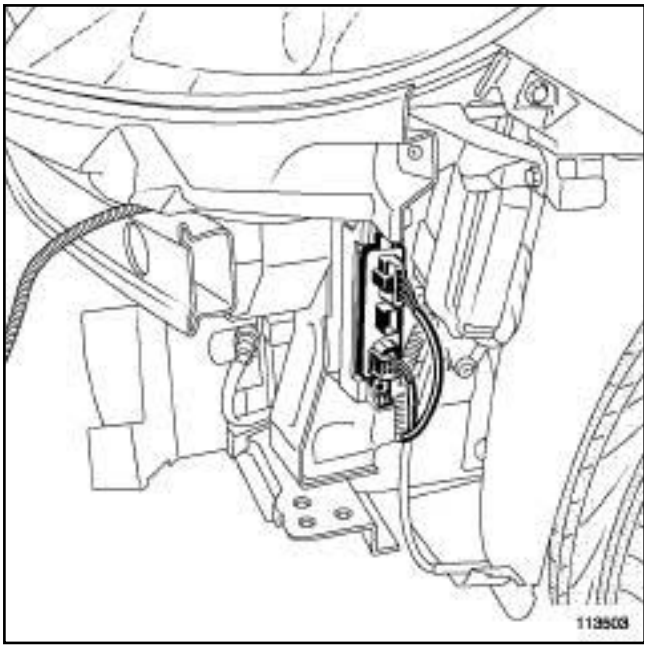
Xenon headlight high voltage unit



115046

DOCUMENTATION PHASE 1

Front lighting computer



113503

DOCUMENTATION PHASE 2

I - LIST OF COMPONENTS

The front lighting consists of:

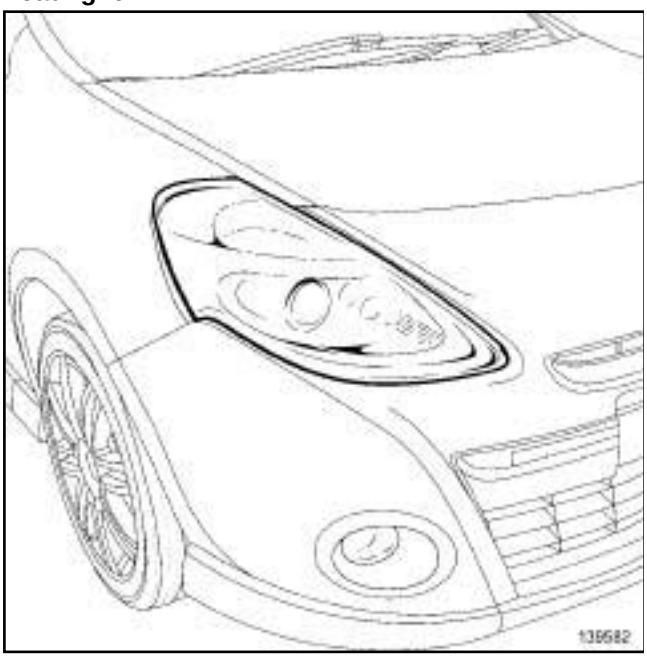
- headlights (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**)
- halogen bulbs (see **80B**, **Headlights**, **Headlight bulb: Removal - Refitting**, page **80B-17**)
- headlight beam adjustment actuators (see **80B**, **Headlights**, **Remote headlight beam adjustment actuator: Removal - Refitting**, page **80B-31**)
- side indicators (see **80B**, **Headlights**, **Side indicator: Removal - Refitting**, page **80B-30**)

FOG LIGHTS

- front fog light (see **80B**, **Headlights**, **Front fog light: Removal - Refitting**, page **80B-28**)
- front fog lights bulbs (see **80B**, **Headlights**, **Front fog light bulb: Removal - Refitting**, page **80B-27**)

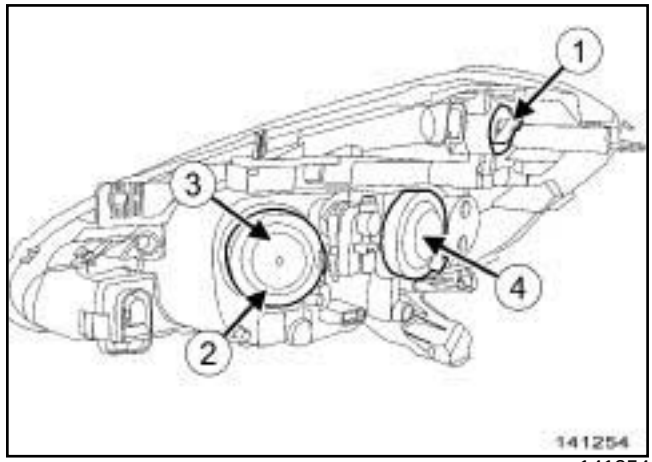
II - POSITION OF THE COMPONENTS

Headlight



139582

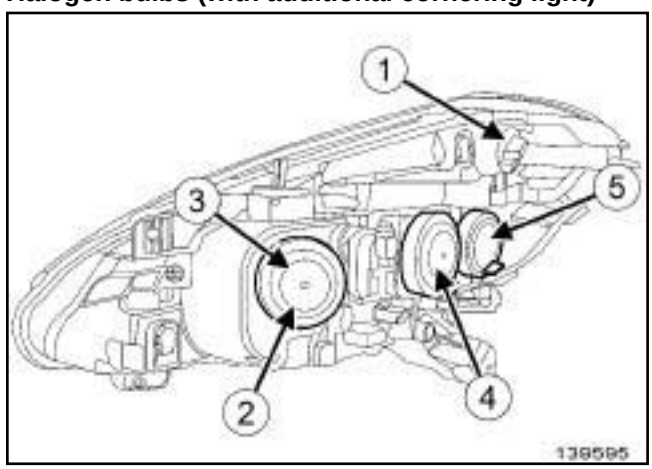
Halogen bulbs (without additional cornering light)



141254

(**1**) Direction indicator bulb
(**2**) Side light bulbs
(**3**) Main beam headlight bulbs
(**4**) Dipped beam headlight bulb

Halogen bulbs (with additional cornering light)

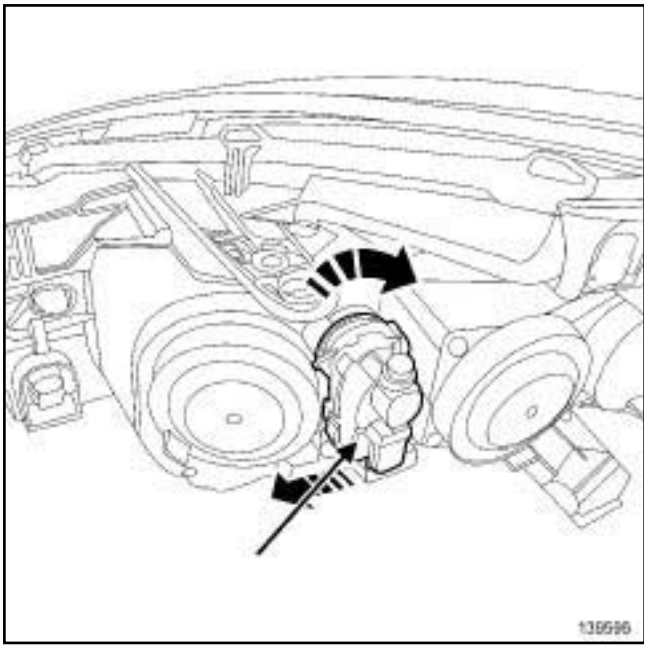


139595

(**1**) Direction indicator bulb
(**2**) Side light bulbs
(**3**) Main beam headlight bulbs
(**4**) Dipped beam headlight bulb
(**5**) Additional cornering light bulb

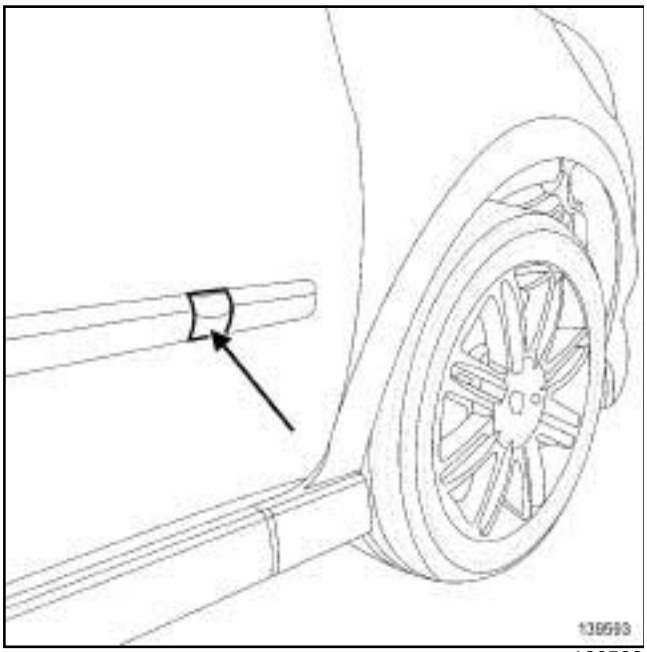
DOCUMENTATION PHASE 2

Headlight beam adjustment actuator



139596

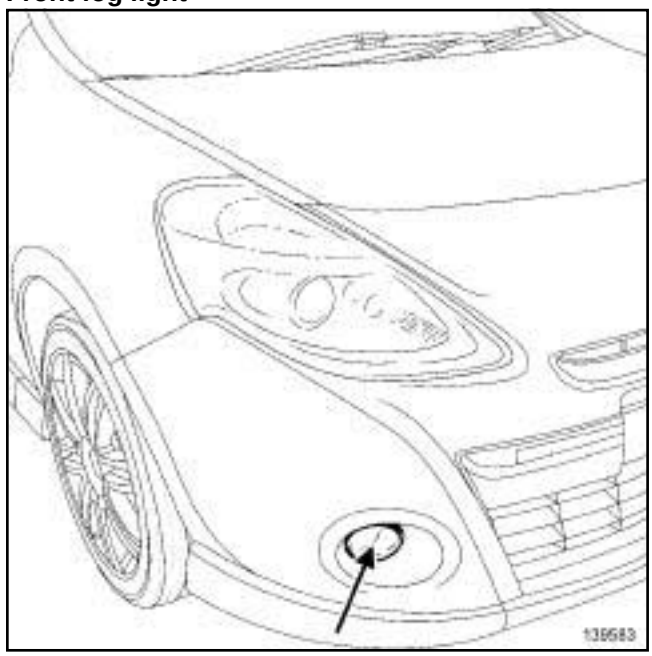
Side indicator



139593

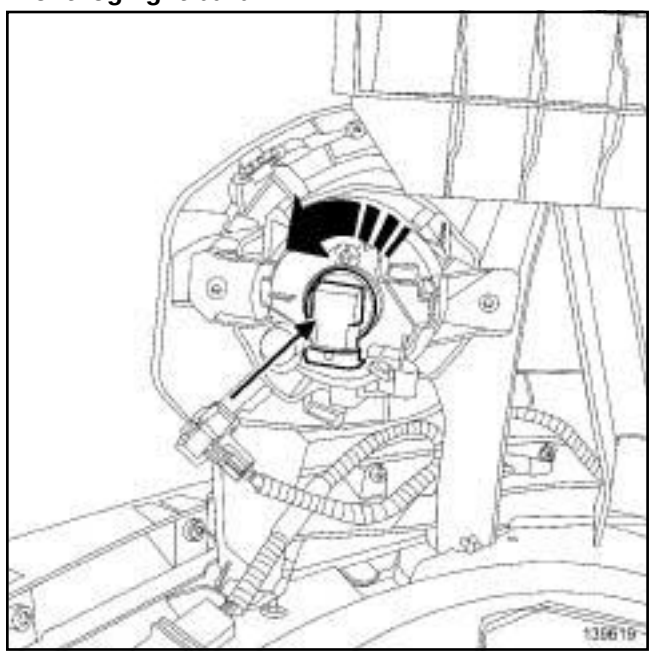
FOG LIGHTS

Front fog light



139583

Front fog light bulb



139619

DISCHARGE LAMPS, and DOCUMENTATION PHASE 1

❑

IMPORTANT

To prevent eye injuries:

- do not look at a xenon bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

IMPORTANT

To prevent burns, wait until the «computers - power unit » assemblies are cold before removal.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

DISCHARGE LAMPS, and DOCUMENTATION PHASE 1

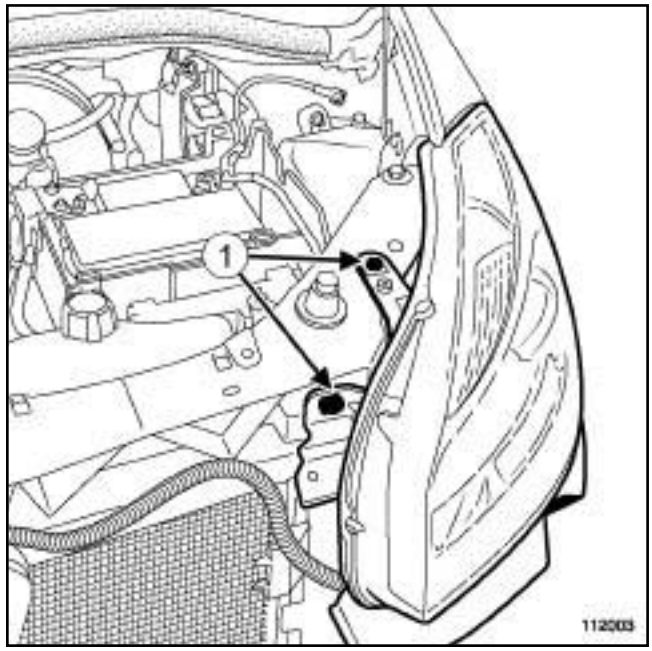
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

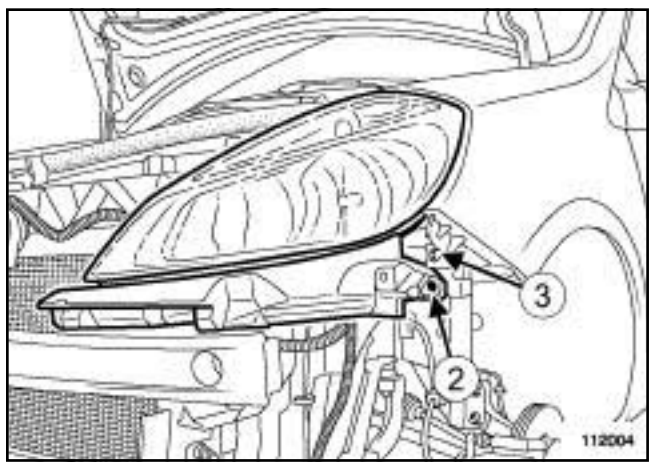
II - OPERATION FOR REMOVAL OF PART CONCERNED

DOCUMENTATION PHASE 1



112003

❑ Remove the upper bolts (**1**) from the headlight.

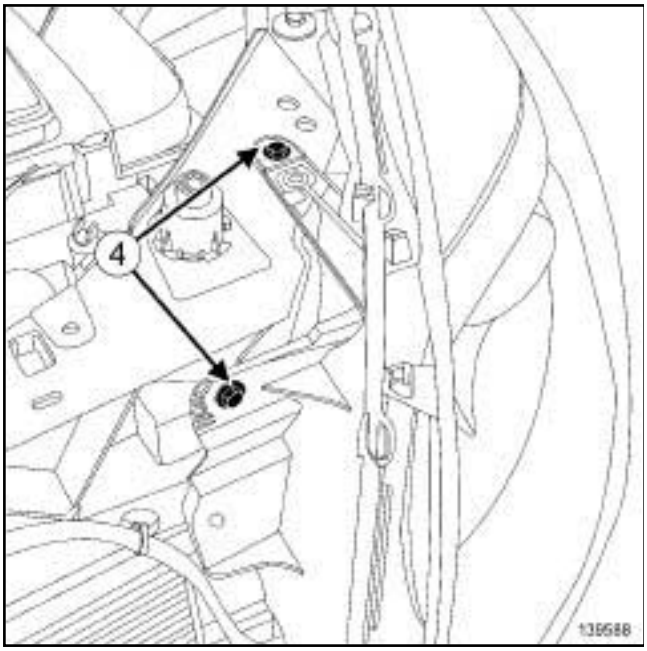


112004

❑ Remove:

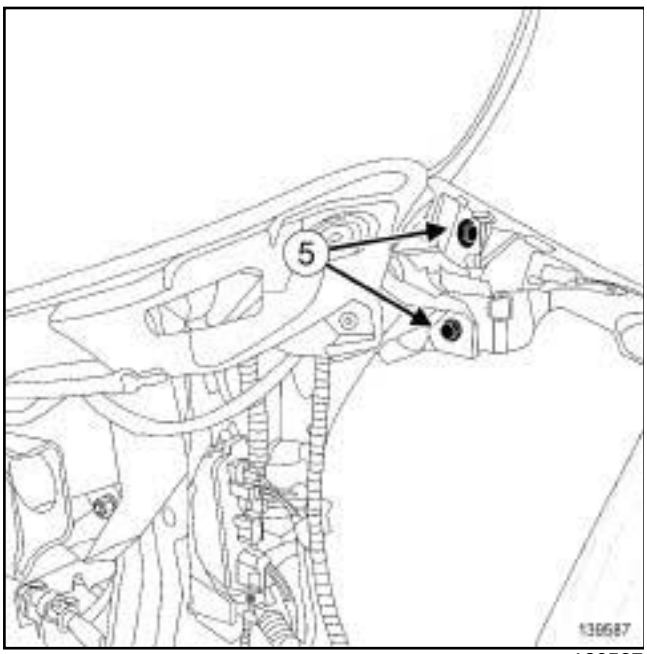
- the headlight lower bolt (**2**) ,
- the plastic rivet (**3**) .

DOCUMENTATION PHASE 2



139588

❏ Remove the upper bolts (**4**) from the headlight.



139587

❏ Remove the lower bolts (**5**) from the headlight.

❏ Remove the headlight.

❏ Disconnect the headlight connectors.

❏ Remove the headlight.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the headlight connectors

❏ Refit the headlight.

II - FINAL OPERATION

DISCHARGE LAMPS, and DOCUMENTATION PHASE 1

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Adjust the headlights (see **80B**, **Headlights**, **Headlight: Adjustment**, page **80B-9**) .

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

DOCUMENTATION PHASE 1

Equipment required
headlight adjustment and checking tool

ADJUSTMENT

I - PREPARATION OPERATION FOR CHECK

❑ Place the vehicle in a working area equipped with a two-post lift.

Note:
Check that the lift is on flat, horizontal ground.

❑ Do not apply the parking brake.

❑ Check and inflate the tyres to the recommended pressure (see **Tyre pressure: Identification**) (35A, Wheels and tyres).

❑ Open the bonnet.

❑ Check:

- that the luggage compartment is empty,
- that the headlights are clean.

Note:
Do not get into the vehicle throughout the operation.

WITHOUT DISCHARGE LAMPS

❑ Position the headlight beam remote adjustment control on **0**.

❑ Switch on the dipped headlights.

II - TEST OPERATION

❑

WARNING
Consult the device's operating manual to avoid incorrect use.

WITHOUT DISCHARGE LAMPS

❑ Place the **headlight adjustment and checking tool** adjusted to **-1%** in front of the vehicle.

DISCHARGE LAMPS

❑ Place the **headlight adjustment and checking tool** adjusted to **-1.3%** in front of the vehicle.

❑ Using the **headlight adjustment and checking tool**, check the headlight beam adjustment.

III - ADJUSTMENT OPERATION

1 - Left-hand headlight

❑ Raise the vehicle (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

❑ Remove:

- the front left-hand wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front left-hand wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).

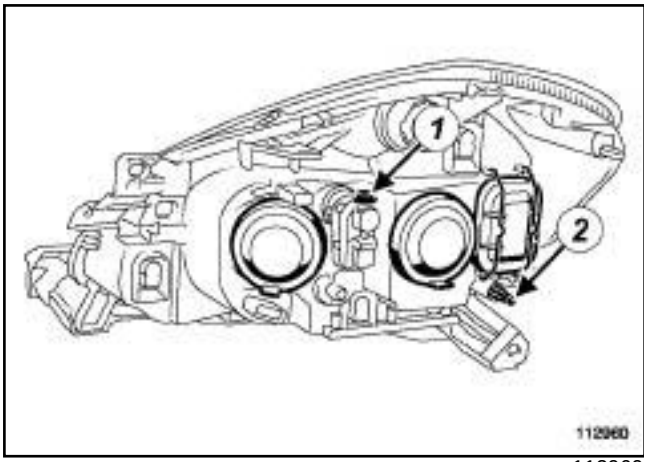
❑ Refit the front left-hand wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❑ Lower the vehicle.

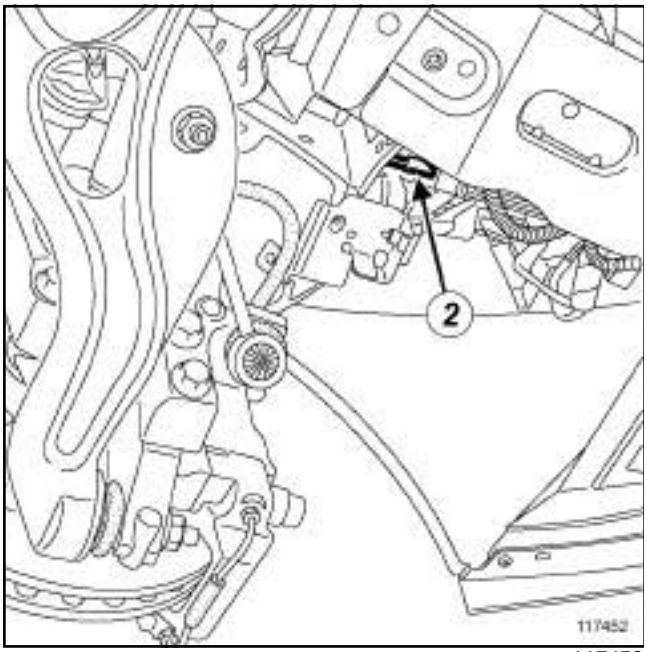
❑ Position the vehicle back on the ground.

❑ Compress the suspension.

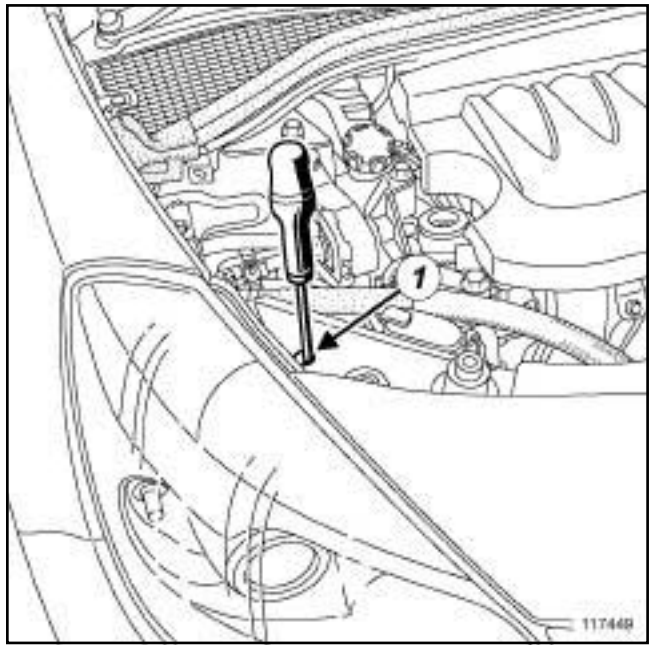
DOCUMENTATION PHASE 1



112960



117452



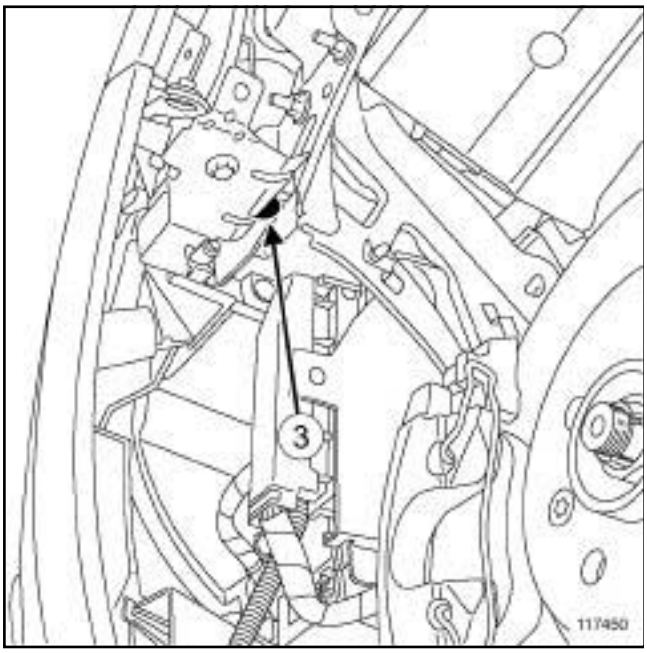
117449

❑ Using the **headlight adjustment and checking tool** :

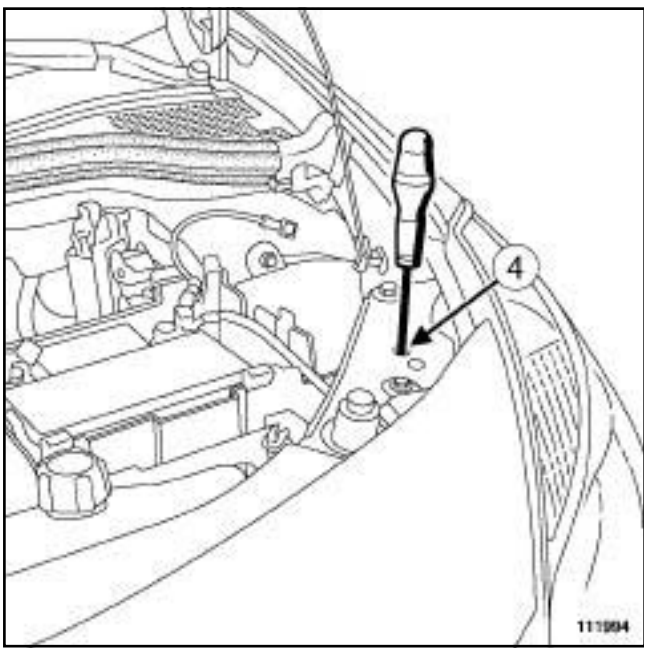
- perform lateral adjustment of the headlight using the screw (**2**) ,
- perform the beam adjustment using the screw located above the headlight (**1**) .

DOCUMENTATION PHASE 1

JAPAN SPECIAL FEATURES



117450



111994

❑ Using the **headlight adjustment and checking tool** :

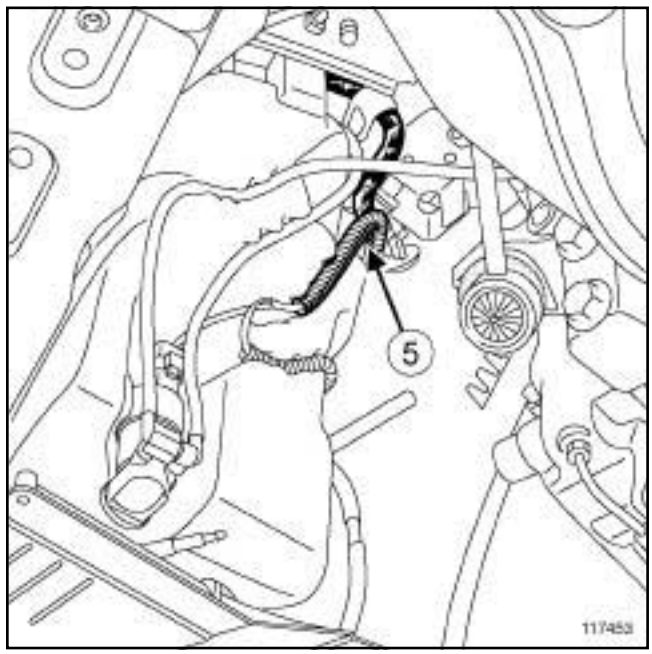
- perform lateral adjustment of the headlight using the screw (**3**) ,
- perform the beam adjustment using the screw located above the headlight (**4**) .

2 - Right-hand headlight

❑ Raise the vehicle (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

❑ Remove:

- the front right-hand wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front right-hand wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).



117453

❑ Move aside the washer fluid pump electrical wiring (**5**) to access the lateral adjustment screw.

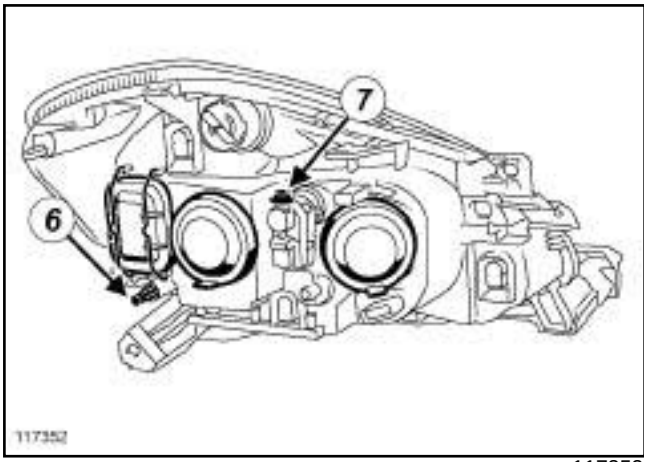
❑ Refit the front right-hand wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❑ Lower the vehicle.

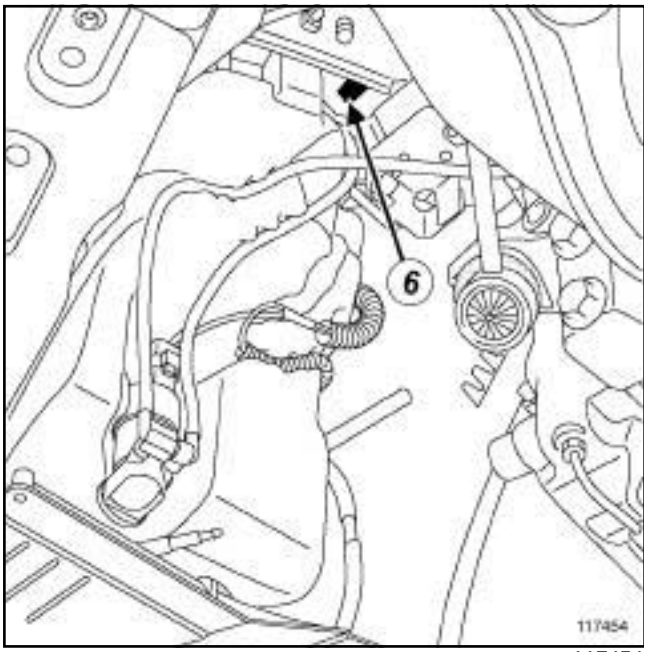
❑ Position the vehicle back on the ground.

❑ Compress the suspension.

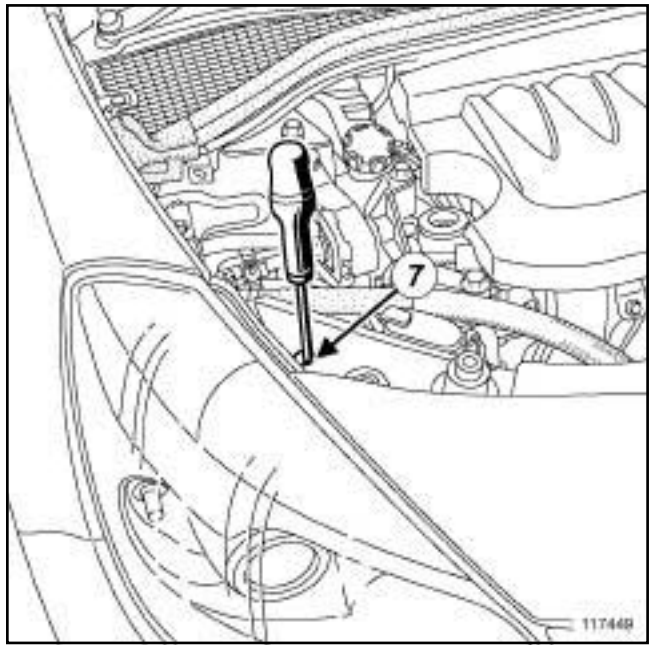
DOCUMENTATION PHASE 1



117352



117454



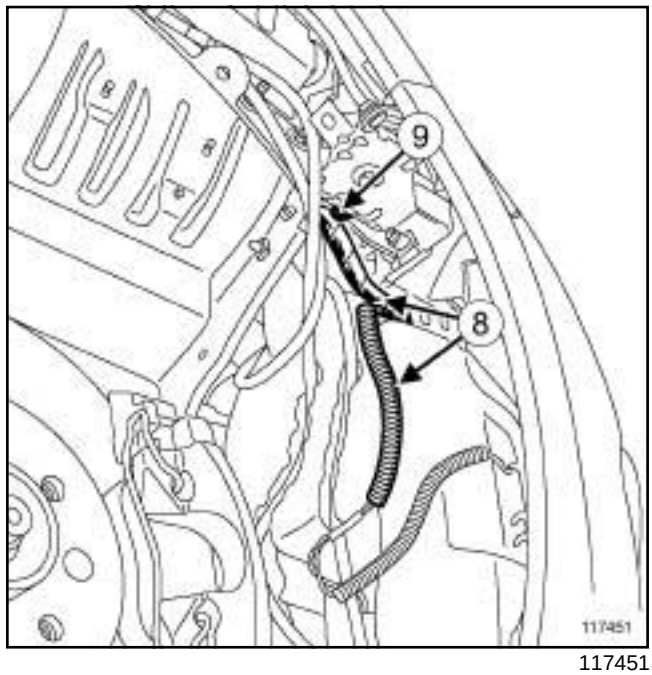
117449

❑ Using the **headlight adjustment and checking tool** :

- perform lateral adjustment of the headlight using the screw (**6**) ,

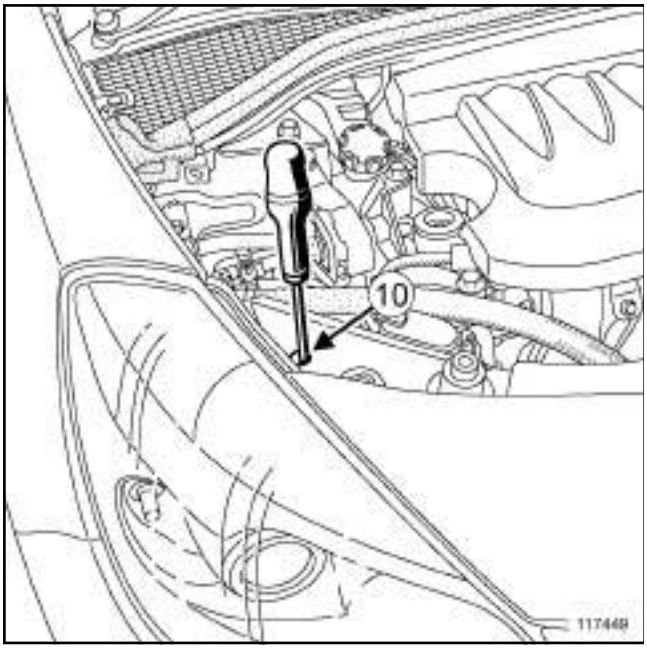
- perform the beam adjustment using the screw located above the headlight (**7**) .

JAPAN SPECIAL FEATURES



117451

❑ Move aside the washer fluid pump electrical wiring (**8**) to access the adjustment screw.



117449

❏ Using the **headlight adjustment and checking tool** :

- perform lateral adjustment of the headlight using the screw ***(9)*** ,
- perform the beam adjustment using the screw located above the headlight (**10**) .

IV - FINAL OPERATION

❏ Raise the vehicle.

❏ Remove the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❏ Refit:

- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❏ Lower the vehicle.

❏ Close the bonnet.

DOCUMENTATION PHASE 2

Equipment required
headlight adjustment and checking tool

ADJUSTMENT

I - PREPARATION OPERATION FOR CHECK

❏ Place the vehicle in a working area equipped with a two-post lift.

> Note:
> Check that the lift is on flat, horizontal ground.

❏ Do not apply the parking brake.

❏ Check and inflate the tyres to the recommended pressure (see **Tyre pressure: Identification**) (35A, Wheels and tyres).

❏ Open the bonnet.

❏ Check:

- that the luggage compartment is empty,
- that the headlights are clean.

> Note:
> Do not get into the vehicle throughout the operation.

❏ Position the headlight beam remote adjustment control on **0**.

❏ Switch on the dipped headlights.

II - TEST OPERATION

❏

> **WARNING**
> Consult the device's operating manual to avoid incorrect use.

❏ Place the **headlight adjustment and checking tool** adjusted to **-1%** in front of the vehicle.

❏ Using the **headlight adjustment and checking tool**, check the headlight beam adjustment.

III - ADJUSTMENT OPERATION

❏ Raise the vehicle (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

❏ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).

❏ Refit the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

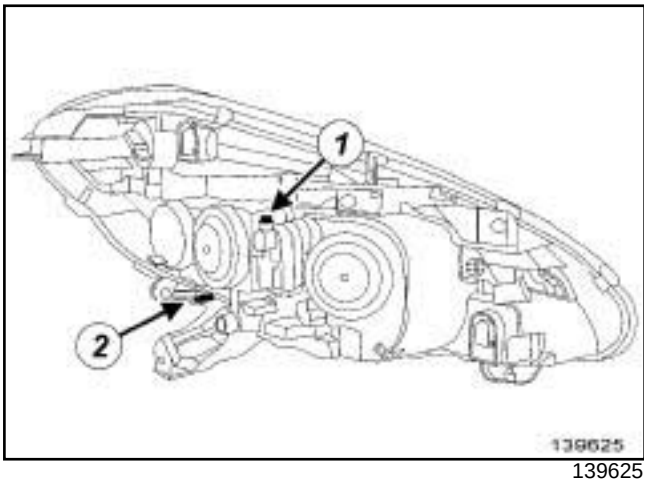
❏ Lower the vehicle.

❏ Position the vehicle back on the ground.

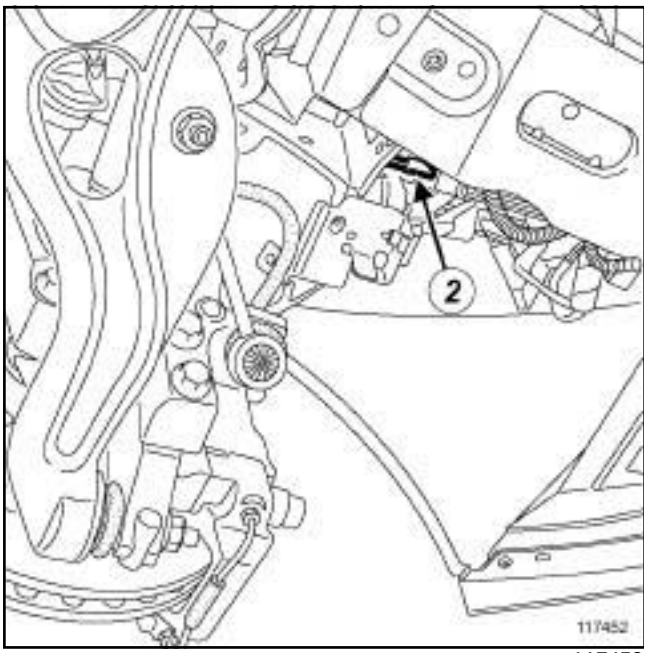
❏ Compress the suspension.

DOCUMENTATION PHASE 2

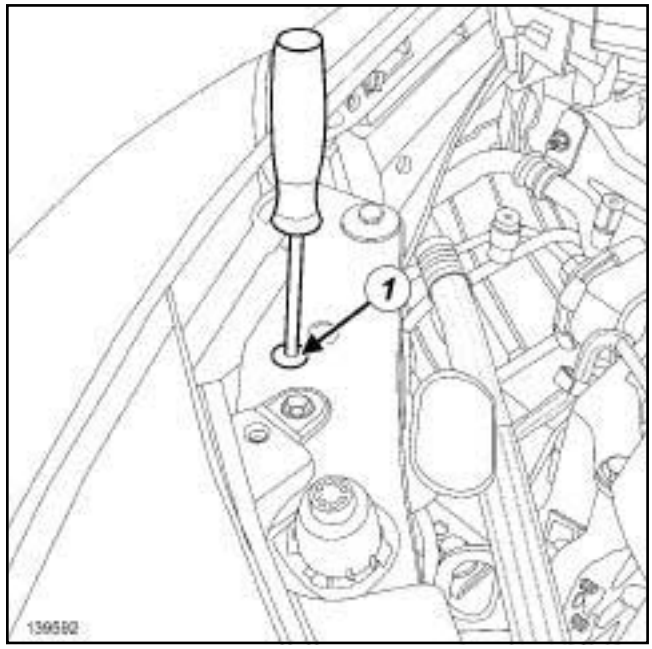
1 - Left-hand headlight



139625



117452



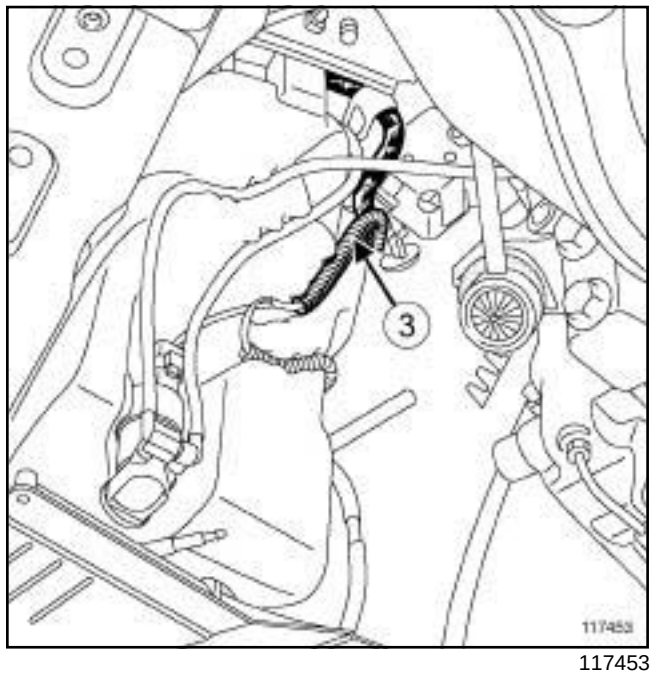
139592

❑ Using the **headlight adjustment and checking tool** :

- perform lateral adjustment of the headlight using the screw (**1**) ,

- perform the beam adjustment using the screw located above the headlight (**2**) .

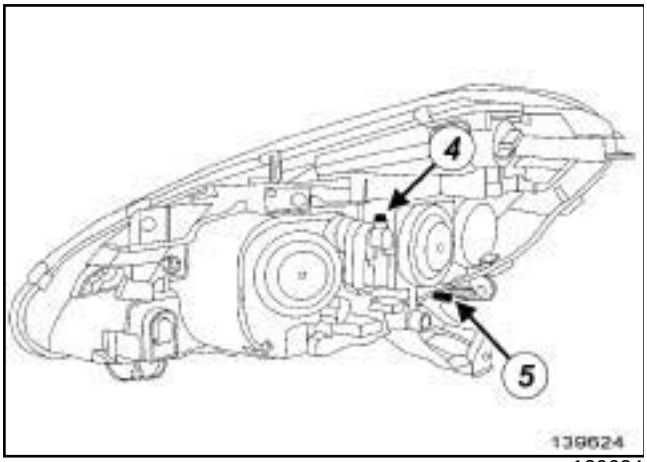
2 - Right-hand headlight



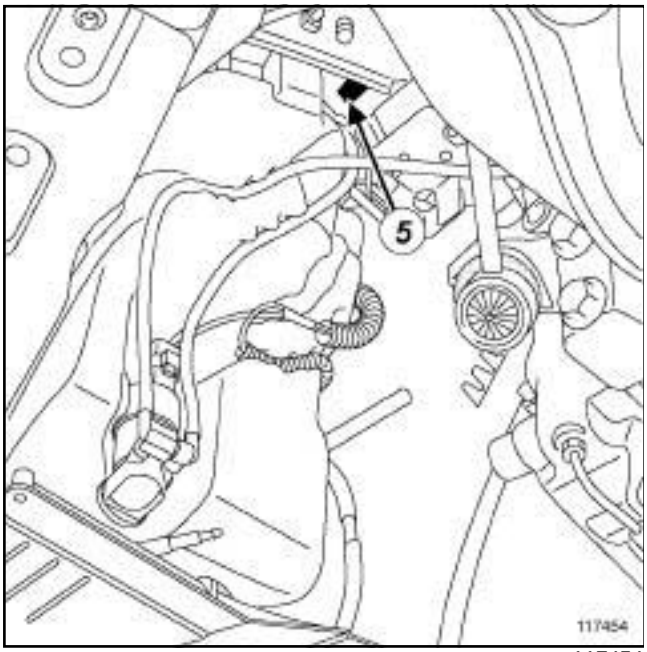
117453

❑ Move aside the washer fluid pump wiring (**3**) to access the lateral adjustment screw.

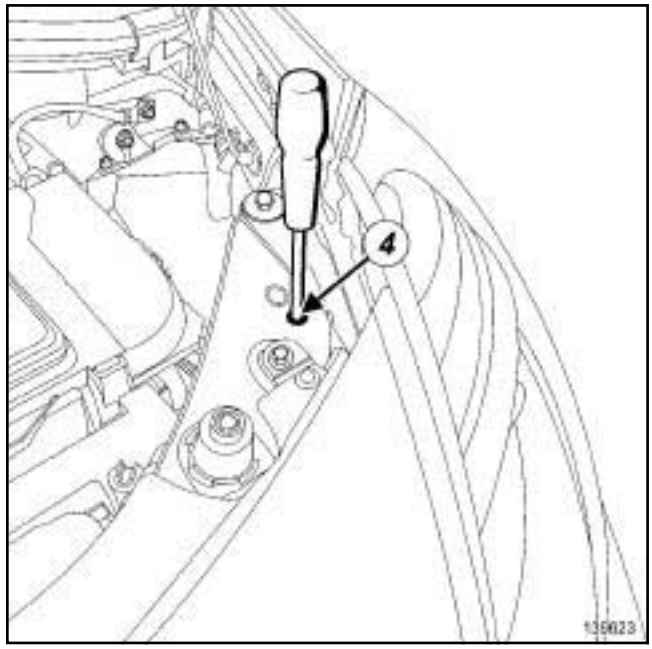
DOCUMENTATION PHASE 2



139624



117454



139623

❑ Using the **headlight adjustment and checking tool** :

- perform lateral adjustment of the headlight using the screw (**5**) ,
- perform the beam adjustment using the screw located above the headlight (**4**) .

IV - FINAL OPERATION

❑ Raise the vehicle.

❑ Remove the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❑ Refit:

- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

❑ Lower the vehicle.

DOCUMENTATION PHASE 1

REMOVAL

DISCHARGE LAMPS

❑

IMPORTANT

To prevent eye injuries:

- do not look at a xenon bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

IMPORTANT

To prevent burns, wait until the «computers - power unit » assemblies are cold before removal.

I - REMOVAL PREPARATION OPERATION

❑ Switch off the ignition.

The side light bulbs, dipped headlight bulbs, main beam headlight bulbs and additional cornering light bulbs require removal of the headlight

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

DISCHARGE LAMPS

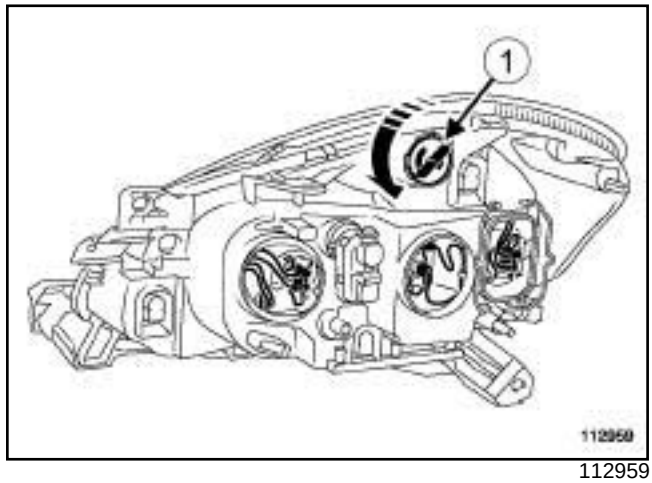
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

1 - Direction indicator bulb

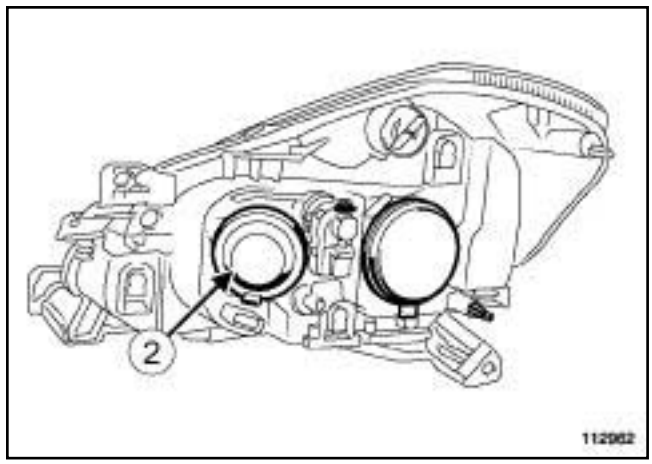


112959

❑ Unlock the bulb holder (**1**) by turning it a quarter of a turn anti-clockwise.

❑ Remove the direction indicator bulb from the bulb holder.

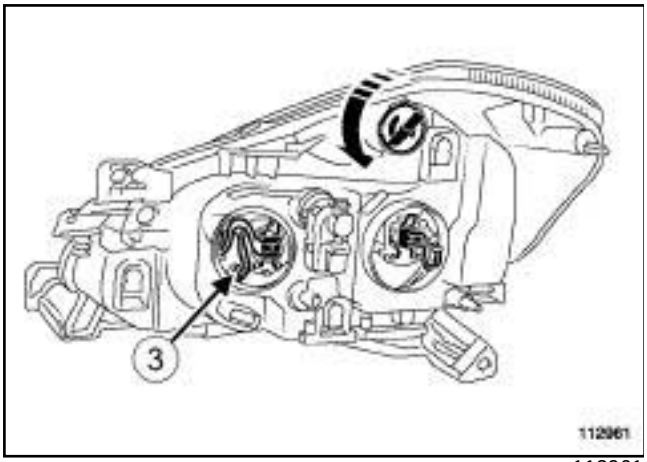
2 - Side light bulbs



112962

❑ Remove the sealing cover (**2**) .

DOCUMENTATION PHASE 1

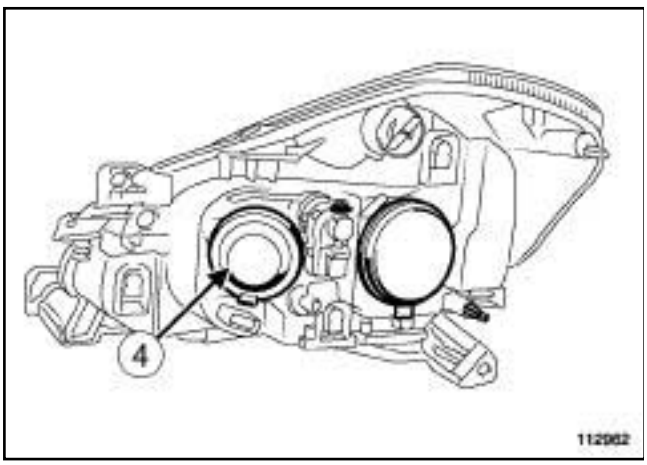


112961

❏ Unclip the bulb holder from the side light bulb at (**3**) .

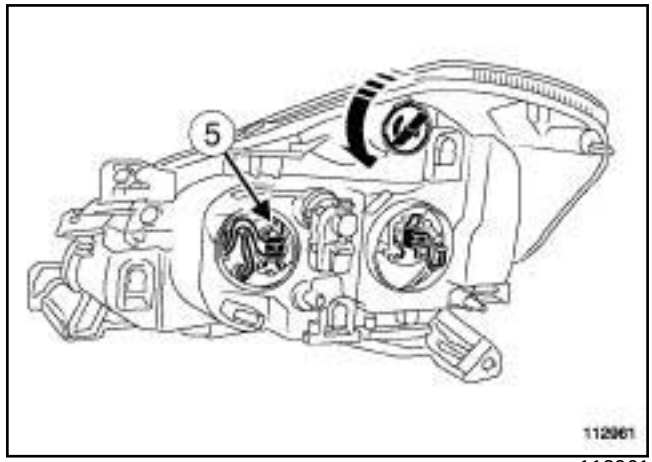
❏ Remove the side light bulb from the bulb holder.

3 - Main beam headlight bulbs



112962

❏ Remove the sealing cover (**4**) .



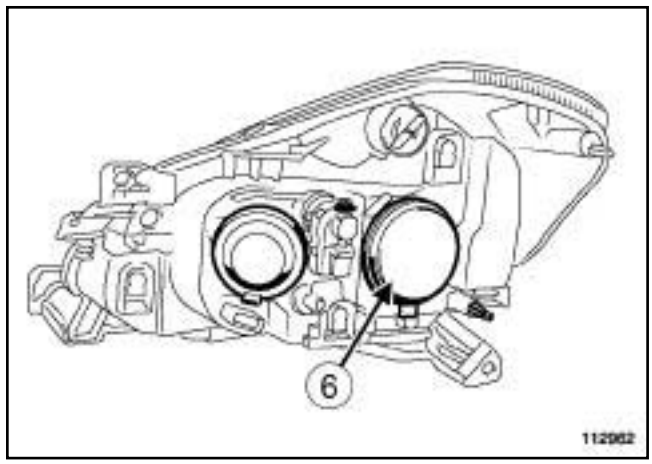
112961

❏ Disconnect the connector from the main beam headlight bulb.

❏ Unlock the clip (**5**) of the main beam headlight bulb.

❏ Remove the main beam headlight bulb.

4 - Dipped beam headlight bulb

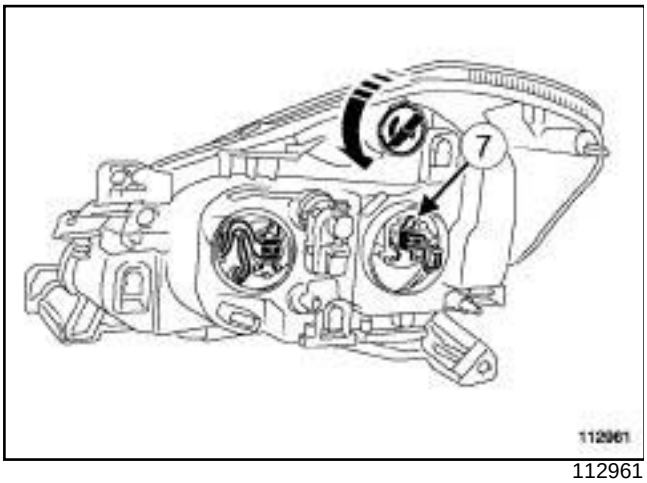


112962

❏ Remove the sealing cover (**6**) .

DOCUMENTATION PHASE 1

WITHOUT DISCHARGE LAMPS



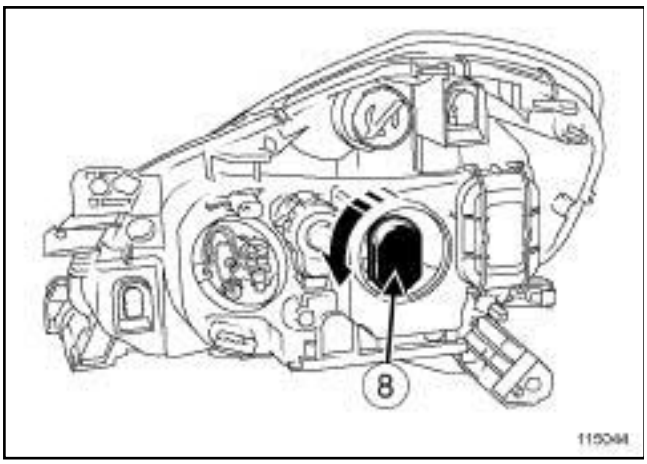
112961

❏ Disconnect the connector from the dipped beam headlight bulb.

❏ Unclip the clip of the dipped beam headlight bulb at (**7**) .

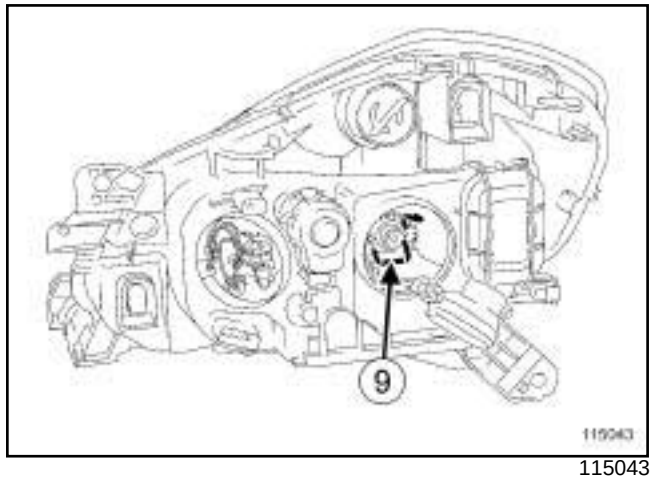
❏ Remove the dipped beam headlight bulb.

DISCHARGE LAMPS



115044

❏ Remove the condenser (**8**) by turning it 45 degrees anti-clockwise.



115043

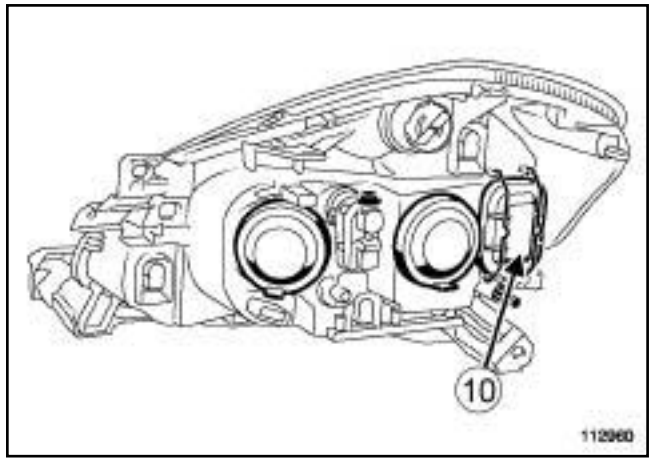
❏ Unclip the clip (**9**) from the dipped beam headlight bulb.

WARNING

To prevent any breakages, handle the bulb by its base. If you should touch the glass, clean it with alcohol and a lint-free cloth.

❏ Remove the dipped beam headlight bulb.

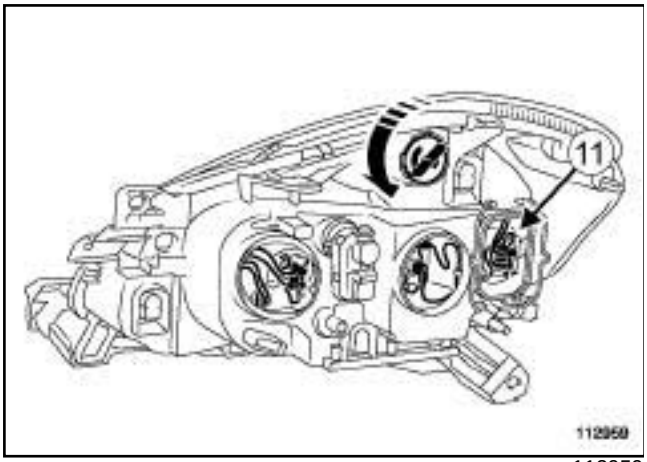
5 - Additional cornering light bulb



112960

❏ Remove the sealing cover (**10**) .

DOCUMENTATION PHASE 1



112959

❏ Disconnect the connector from the additional cornering light bulb.

❏ Unlock the clip of the additional cornering light bulb at (**11**) .

❏ Remove the additional cornering light bulb.

REFITTING

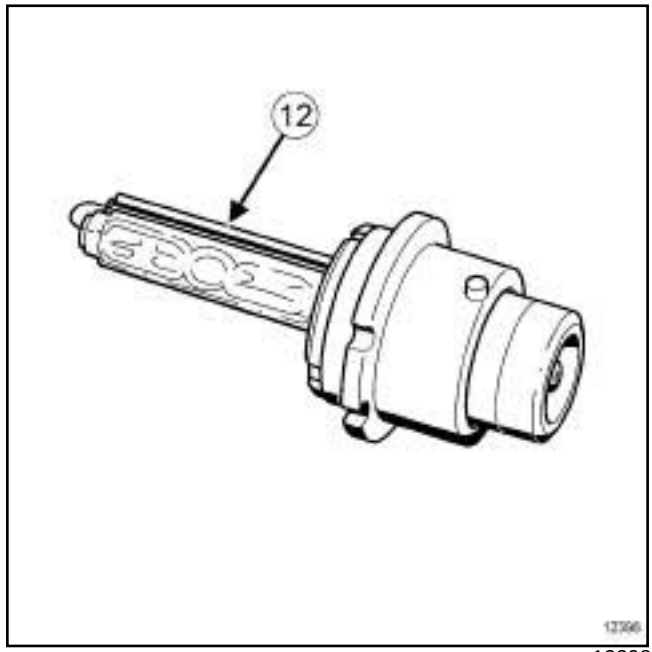
I - REFITTING PREPARATION OPERATION

❏

Note:

When replacing a bulb, only use approved bulbs.

DISCHARGE LAMPS



12398

❏

WARNING

To prevent any breakages, handle the bulb by its base. If you should touch the glass, clean it with alcohol and a lint-free cloth.

WARNING

The bulb must be handled with care.

The external conductor (**12**) is very fragile and must not be damaged.

II - REFITTING OPERATION FOR PART CONCERNED

1 - Direction indicator bulb

❏ Refit the direction indicator bulb on the bulb holder.

❏ Lock the bulb holder by turning it a quarter of turn clockwise.

2 - Side light bulbs

❏ Refit the side light bulb on the bulb holder.

❏ Clip the side light bulb holder onto the headlight.

❏ Refit the sealing cover.

DOCUMENTATION PHASE 1

3 - Main beam headlight bulbs

❏ Refit the main beam headlight bulb.

❏ Lock the clip of the main beam headlight bulb.

❏ Connect the connector of the main beam headlight bulb.

❏ Refit the sealing cover.

4 - Dipped beam headlight bulb

WITHOUT DISCHARGE LAMPS

❏ Refit the dipped beam headlight bulb.

❏ Fasten the clip on the dipped beam headlight bulb.

❏ Connect the connector to the dipped beam headlight bulb.

DISCHARGE LAMPS

❏ Refit the dipped beam headlight bulb.

❏ Fasten the clip on the dipped beam headlight bulb.

❏ Refit the capacitor by turning it an eighth of a turn clockwise.

❏ Refit the sealing cover.

5 - Additional cornering light bulb

❏ Refit the additional cornering light bulb.

❏ Lock the clip of the additional cornering light bulb.

❏ Connect the connector of the additional cornering light bulb.

❏ Refit the sealing cover.

III - FINAL OPERATION

❏ Refit the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

❏ Lower the vehicle.

DISCHARGE LAMPS

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Adjust the headlights (see **80B**, **Headlights**, **Headlight: Adjustment**, page **80B-9**) .

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

DOCUMENTATION PHASE 2

REMOVAL

❏

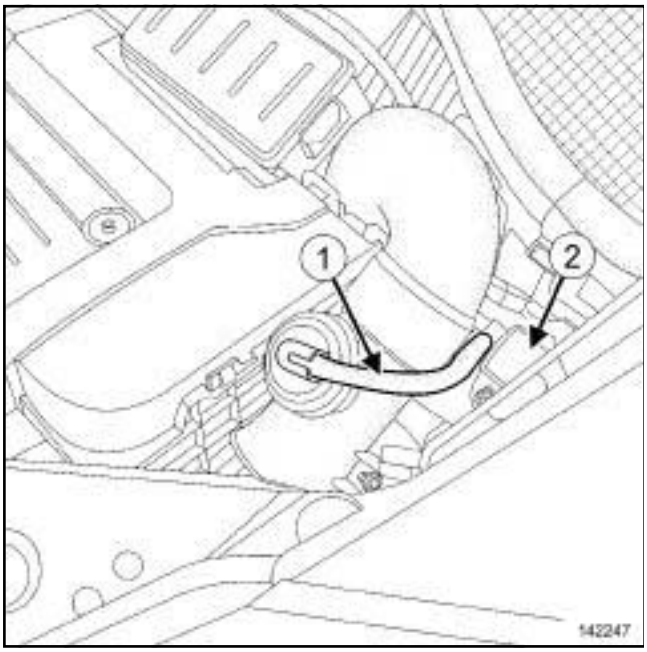
Note:
Do not remove the headlight to replace the bulbs.

I - REMOVAL PREPARATION OPERATION

❏ Switch off the ignition.

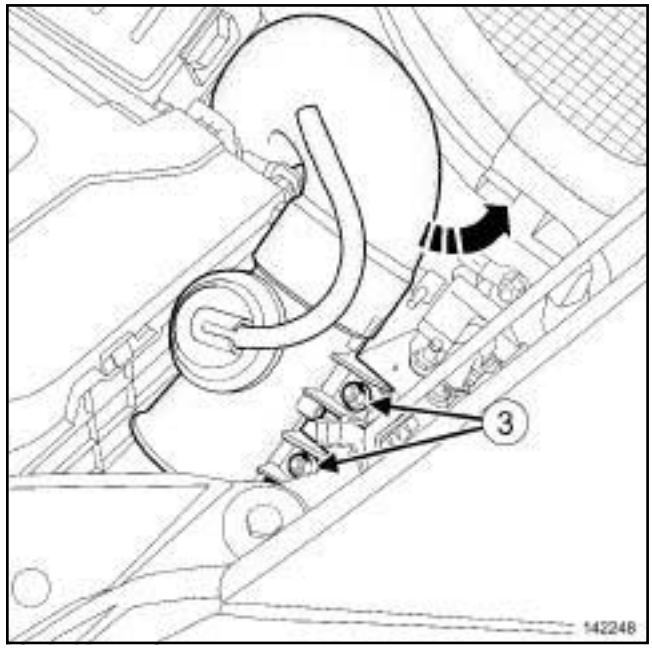
F4R

For the left-hand headlight bulbs



142247

❏ Disconnect the vacuum pipe (**1**) of the soundproofing unit control solenoid valve (**2**) .



142248

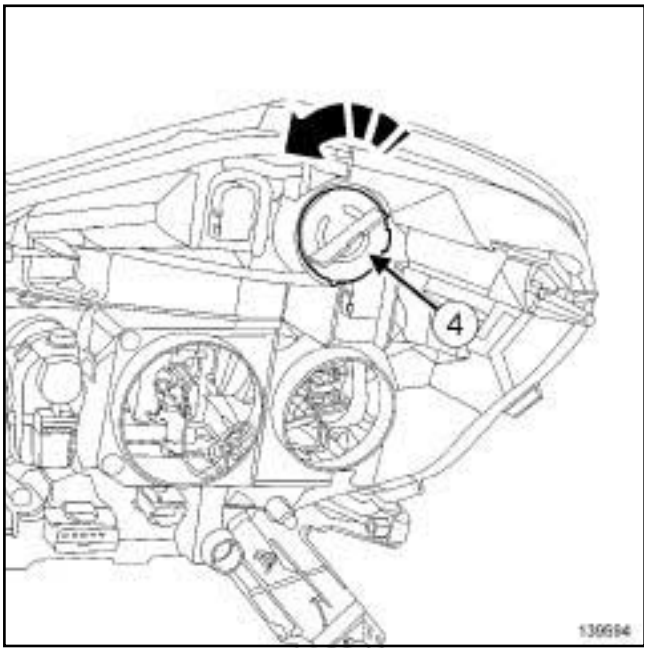
❏ Remove the soundproofing unit nuts (**3**) .

❏ Move aside the soundproofing unit.

DOCUMENTATION PHASE 2

II - OPERATION FOR REMOVAL OF PART CONCERNED

1 - Direction indicator bulb

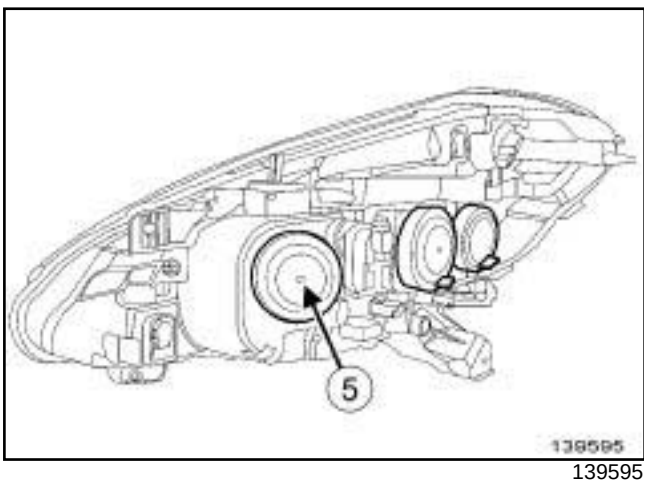


139594

❏ Unlock the bulb holder (**4**) by turning it a quarter of a turn anti-clockwise.

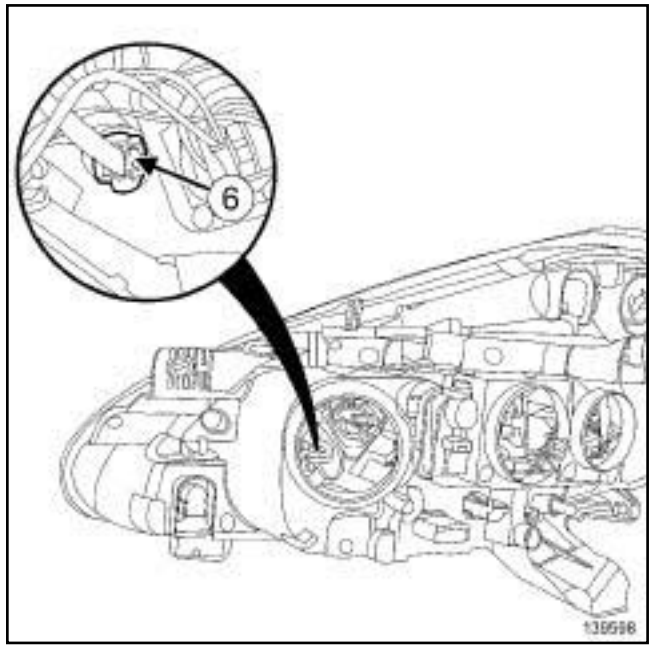
❏ Remove the direction indicator bulb from the bulb holder.

2 - Side light bulb



139595

❏ Remove the sealing cover (**5**) .

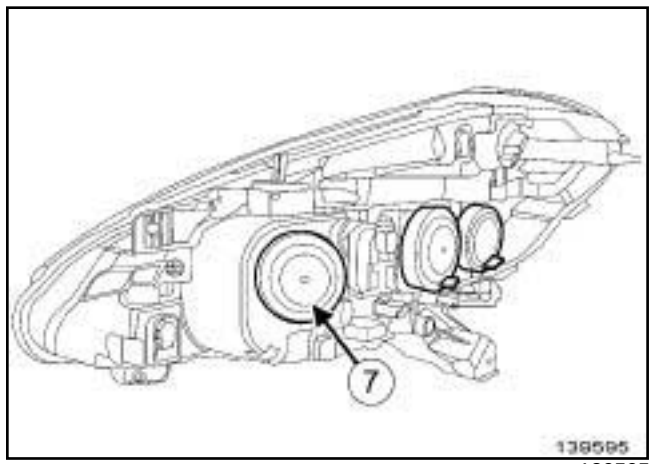


139598

❏ Unclip:

- the bulb holder (**6**) from the headlight,
- the side light bulb from the bulb holder.

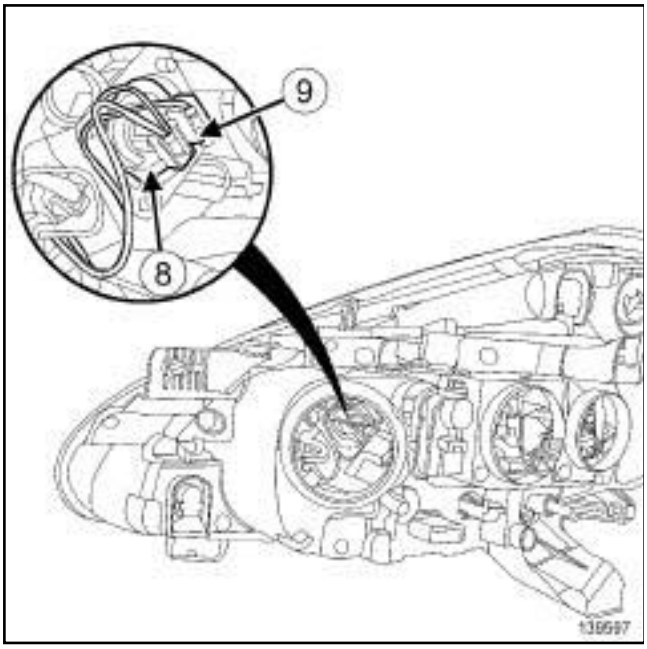
3 - Main beam headlight bulbs



139595

❏ Remove the sealing cover (**7**) .

DOCUMENTATION PHASE 2



139597

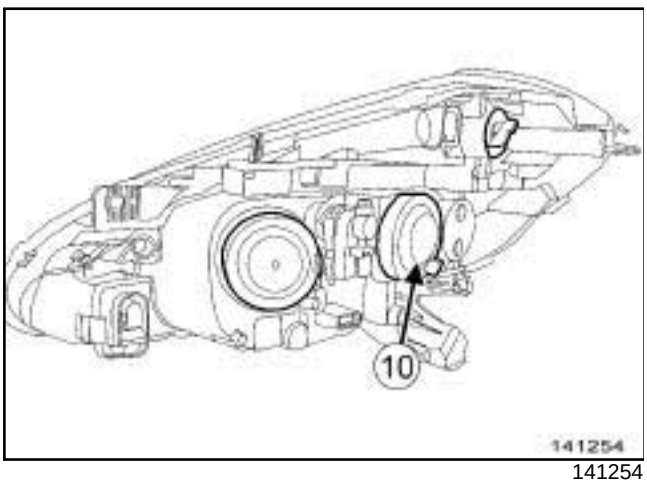
❏ Unclip the main beam headlight bulb (**8**) .

❏ Remove the main beam headlight bulb.

❏ Disconnect the connector (**9**) from the main beam headlight bulb.

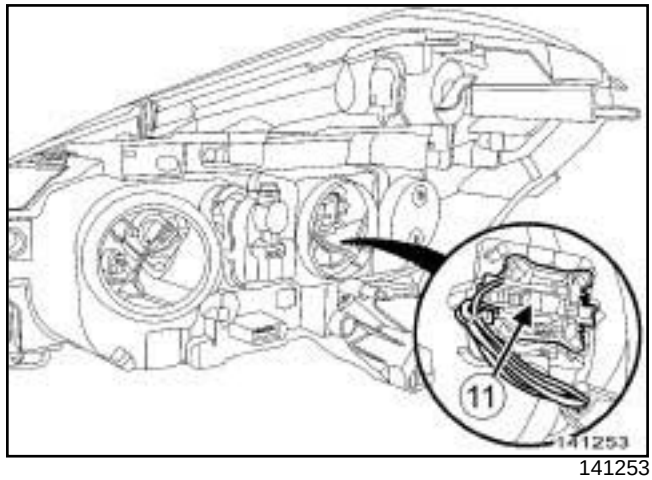
4 - Dipped beam headlight bulb

a - Halogen headlight without additional cornering light



141254

❏ Remove the sealing cover (**10**) .



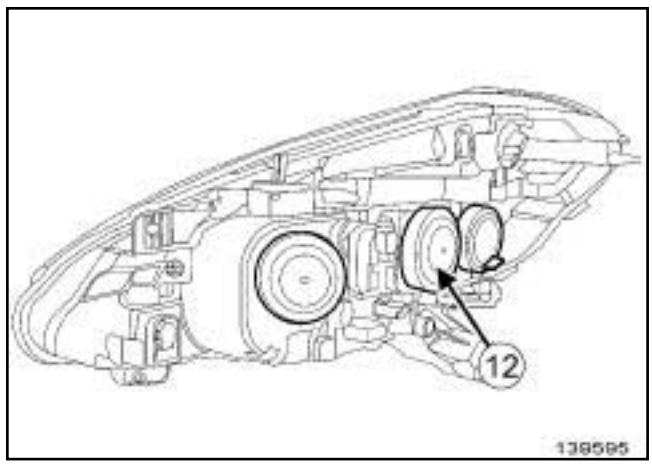
141253

❏ Unclip the dipped beam headlight bulb.

❏ Disconnect the connector (**11**) from the dipped beam headlight bulb.

❏ Remove the dipped beam headlight bulb.

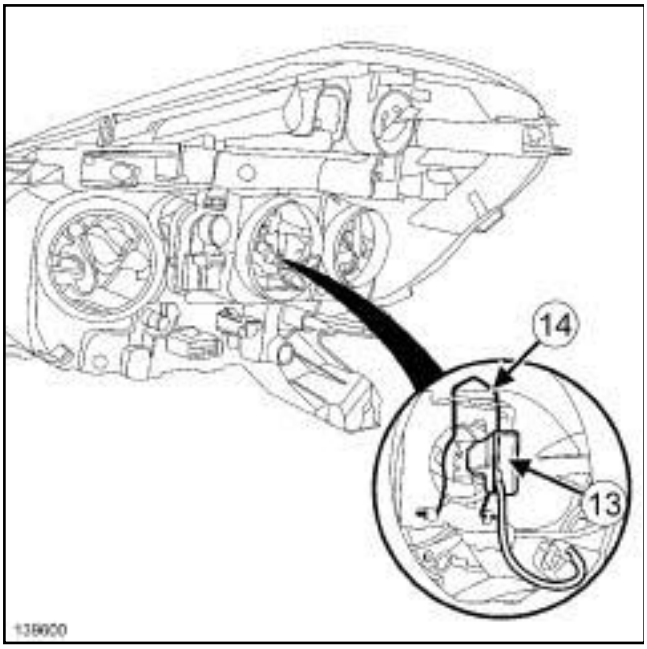
b - Halogen headlight with additional cornering light



139595

❏ Remove the sealing cover (**12**) .

DOCUMENTATION PHASE 2



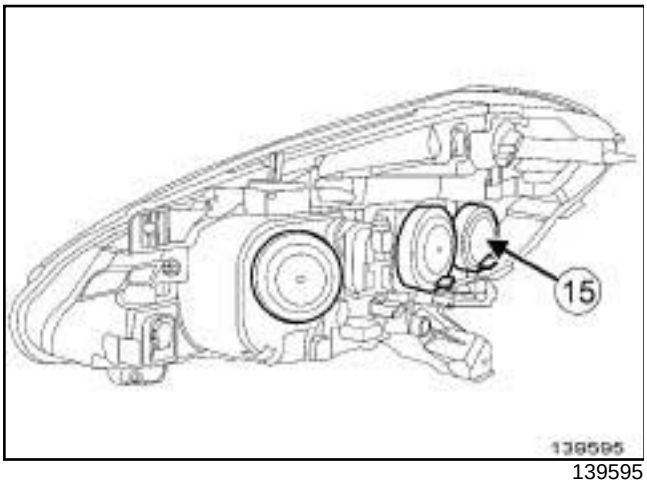
139600

❏ Disconnect the connector (**13**) from the dipped beam headlight bulb.

❏ Unlock the clip (**14**) from the dipped beam headlight bulb.

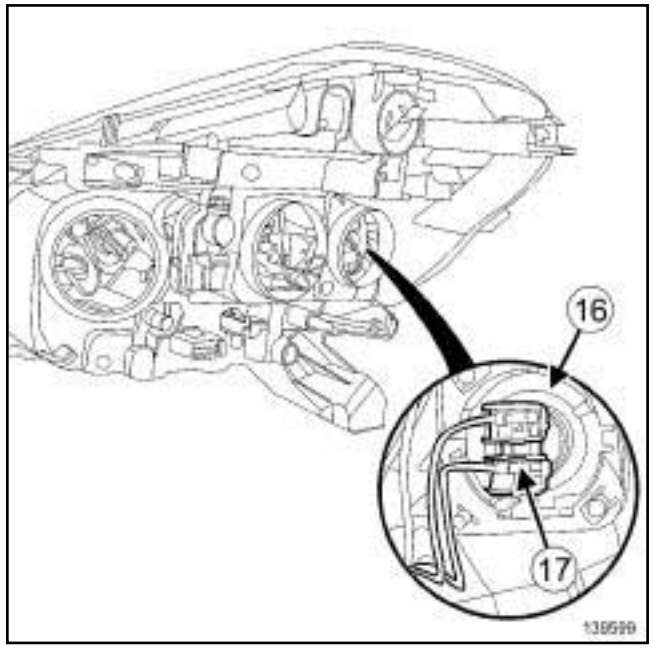
❏ Remove the dipped beam headlight bulb.

5 - Additional cornering light bulb



139595

❏ Remove the sealing cover (**15**) .



139599

❏ Unclip the additional cornering light bulb (**16**) .

❏ Remove the additional cornering light bulb.

❏ Disconnect the connector (**17**) from the additional cornering light bulb.

REFITTING

I - REFITTING PREPARATION OPERATION

❏

Note:

If the bulbs are changed, only use approved bulbs.

II - REFITTING OPERATION FOR PART CONCERNED

1 - Direction indicator bulb

❏ Refit the direction indicator bulb on the bulb holder.

❏ Lock the bulb holder by turning it a quarter of turn clockwise.

2 - Side light bulb

❏ Clip on:

- the side light bulb onto the bulb holder,

- the side light bulb holder onto the headlight.

❏ Refit the sealing cover.

DOCUMENTATION PHASE 2

3 - Main beam headlight bulbs

❏ Connect the connector to the main beam headlight bulb.

❏ Refit:

- the main beam headlight bulb by clipping it onto the headlight,
- the sealing cover.

4 - Dipped beam headlight bulb

a - Halogen headlight without additional cornering light

❏ Refit the dipped beam headlight bulb.

❏ Connect the connector of the dipped beam headlight.

❏ Refit the sealing cover.

b - Halogen headlight with additional cornering light

❏ Refit the dipped beam headlight bulb.

❏ Fasten the clip on the dipped beam headlight bulb.

❏ Connect the connector to the dipped beam headlight bulb.

❏ Refit the sealing cover.

5 - Additional cornering light bulb

❏ Connect the connector of the additional cornering light bulb.

❏ Refit:

- the additional cornering light bulb by clipping it onto the headlight,
- the sealing cover.

III - FINAL OPERATION

F4R

❏ Fit the soundproofing unit in place.

❏ Refit the soundproofing unit nuts.

❏ Connect the vacuum pipe of the soundproofing unit control solenoid valve.

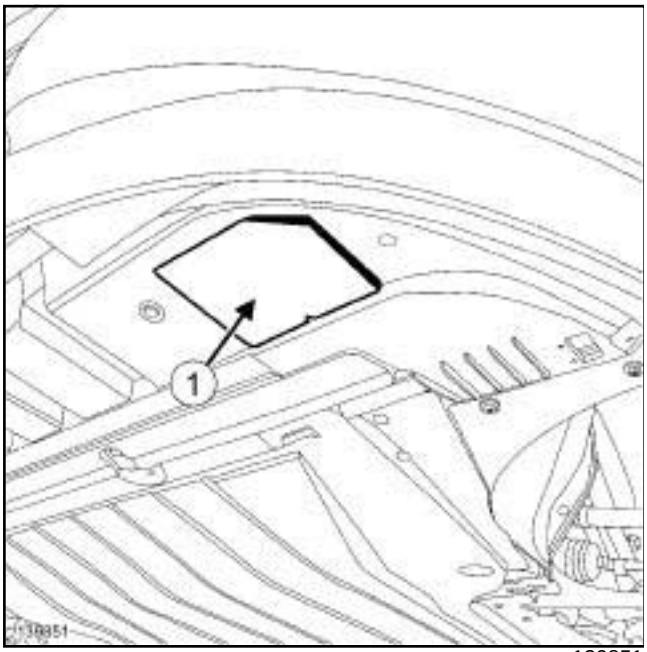
FOG LIGHTS

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

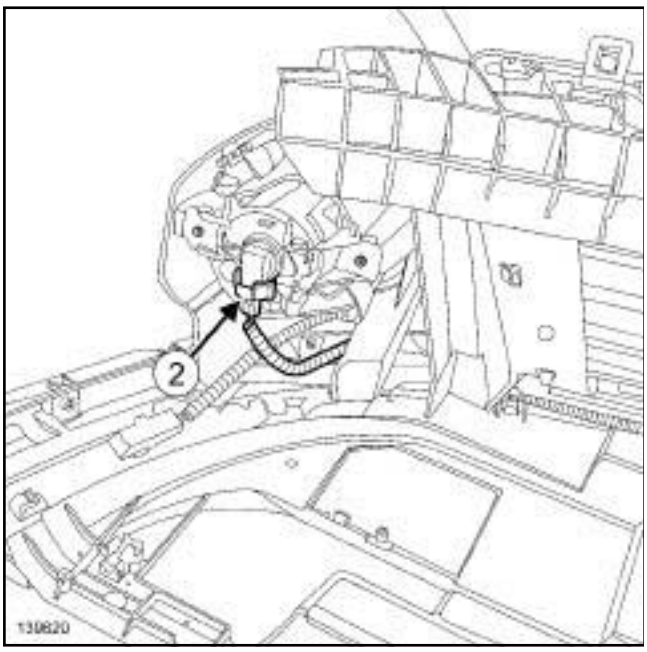
❏ Raise the vehicle.



139851

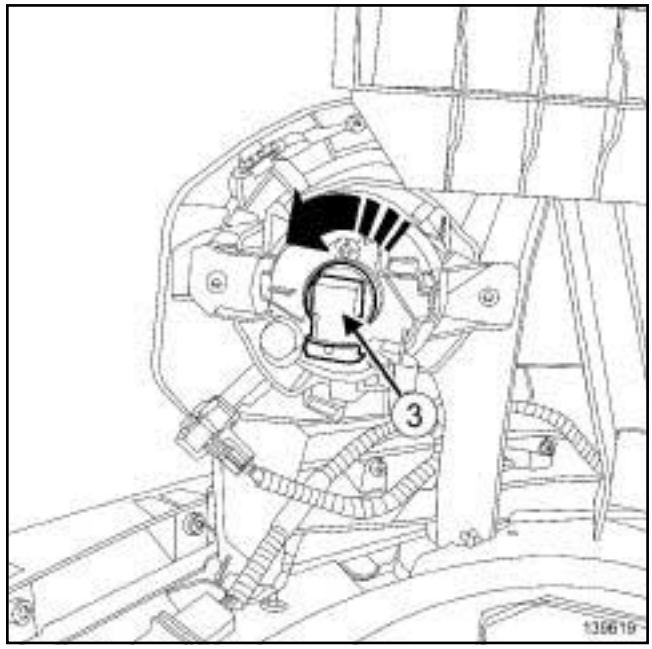
❏ Unclip the access flap (**1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



139620

❏ Disconnect the front fog light connector (**2**) .



139619

❏ Remove the front fog light bulb (**3**) anti-clockwise.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏

Note:

When replacing a bulb, only use approved bulbs.

❏ Refit the front fog light bulb clockwise.

❏ Connect the front fog light connector.

II - FINAL OPERATION

❏ Clip on the access flap.

❏ Lower the vehicle.

FOG LIGHTS

REMOVAL

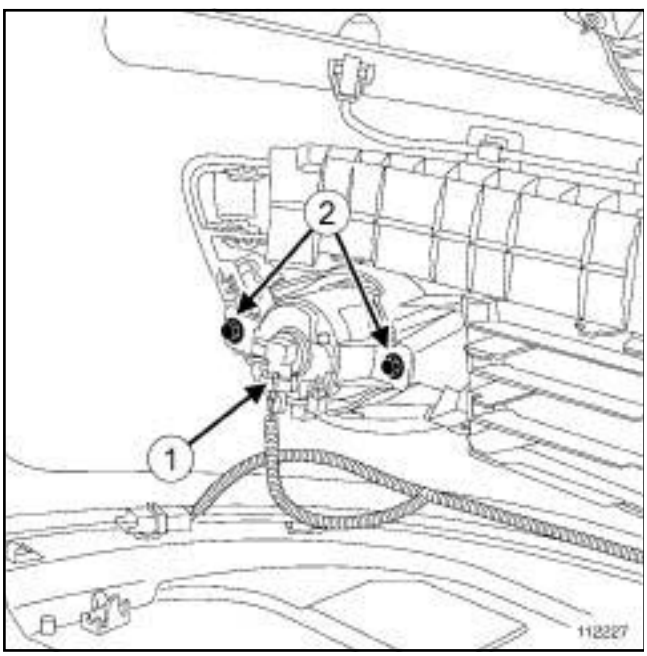
I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

❏ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112227

❏ Disconnect the connector (**1**) .

❏ Remove:

- the bolts (**2**) ,
- the fog light.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ To replace a bulb, use an approved bulb.

❏ Refit:

- the fog light,
- the fog light bolts.

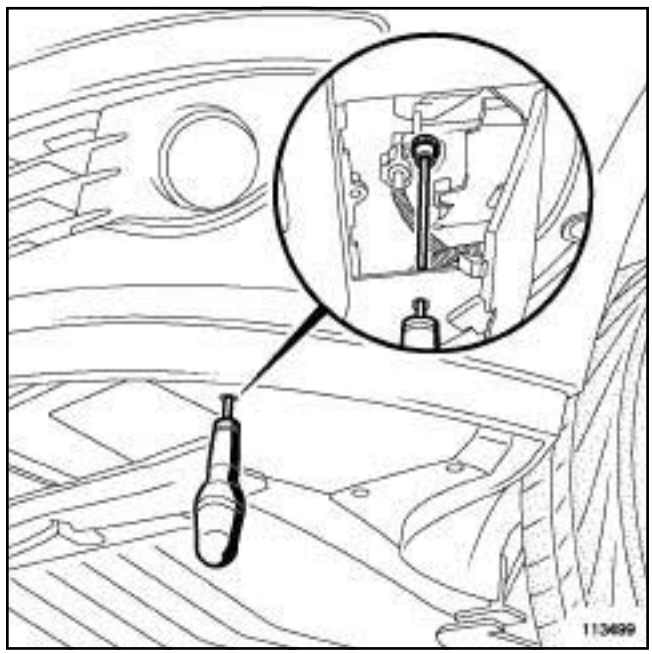
❏ Connect the connector.

II - FINAL OPERATION

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

DOCUMENTATION PHASE 1

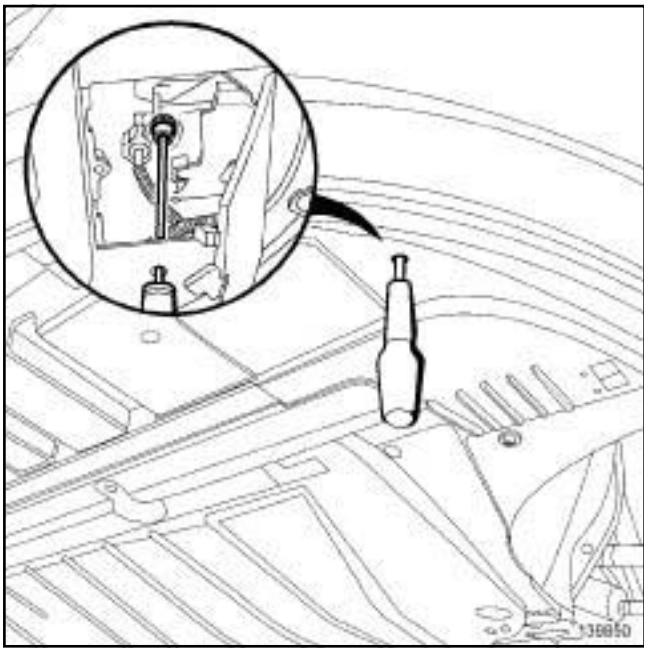


113499

❏ Adjust the fog lights using a screwdriver.

FOG LIGHTS

DOCUMENTATION PHASE 2



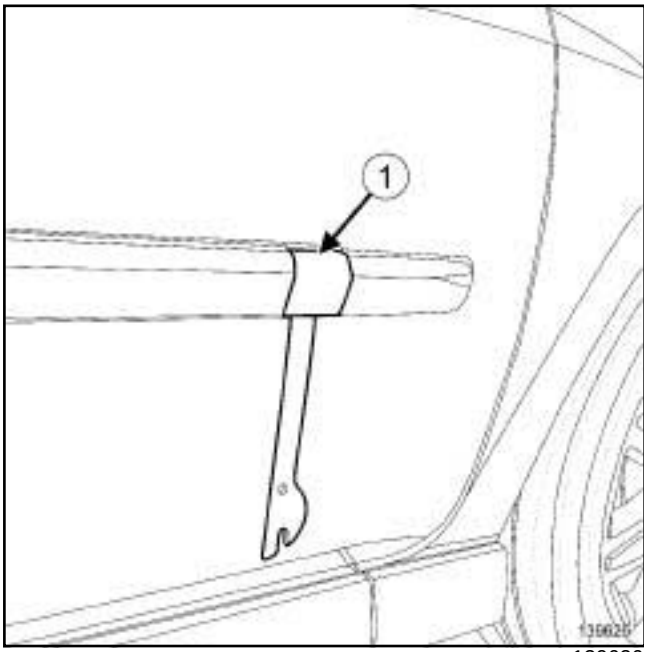
139850

❑ Adjust the fog lights using a screwdriver.

Special tooling required	
Car. 1363	Set of trim removal levers.

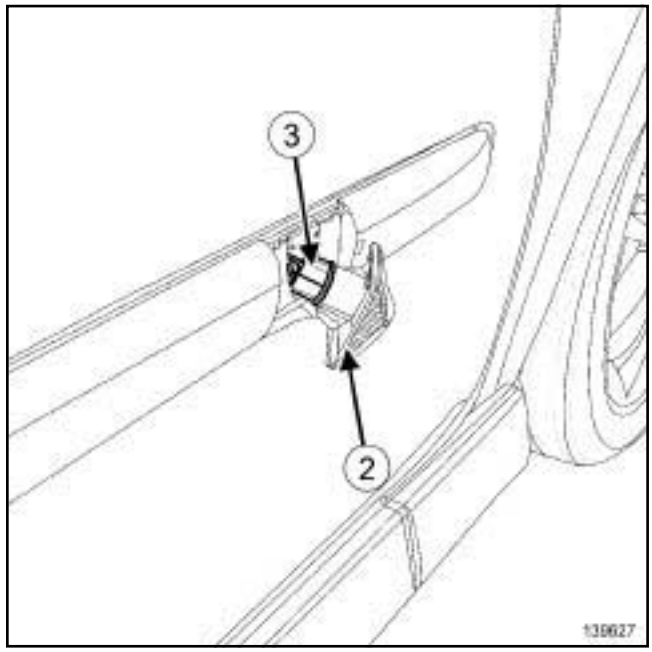
REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



139626

❏ Unclip the side indicator (**1**) by inserting the tool **(Car. 1363)** from underneath.



139627

❏ Remove:

- the side indicator (**2**) from the bulb holder (**3**) ,
- the bulb from the bulb holder.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏

> Note:
> If the bulbs are changed, use approved bulbs.

❏ Refit:

- the bulb onto the side indicator bulb holder,
- the side indicator on the bulb holder.

❏ Clip the side indicator onto the front side door.

DOCUMENTATION PHASE 1

DISCHARGE LAMPS

❑

IMPORTANT

To prevent burns, wait until the «computers - power unit » assemblies are cold before removal.

IMPORTANT

To prevent eye injuries:

- do not look at a xenon bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

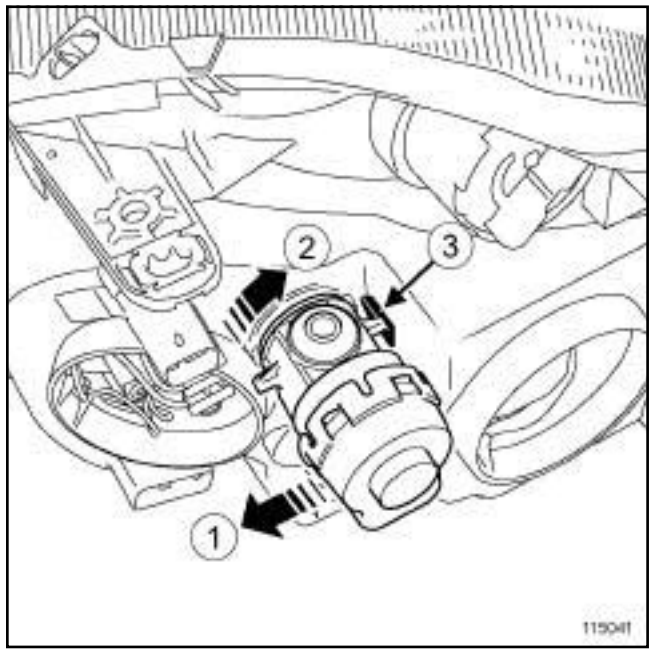
DISCHARGE LAMPS

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



115041

❑ Press on (**1**) .

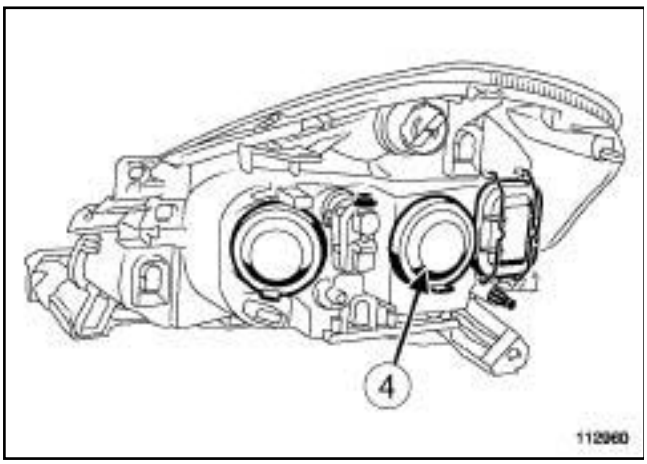
❑ Unclip the actuator (**2**) by rotating it a quarter of a turn clockwise while pressing the clip (**3**) .

❑ Remove the actuator by unclipping the actuator ball joint from the clip groove.

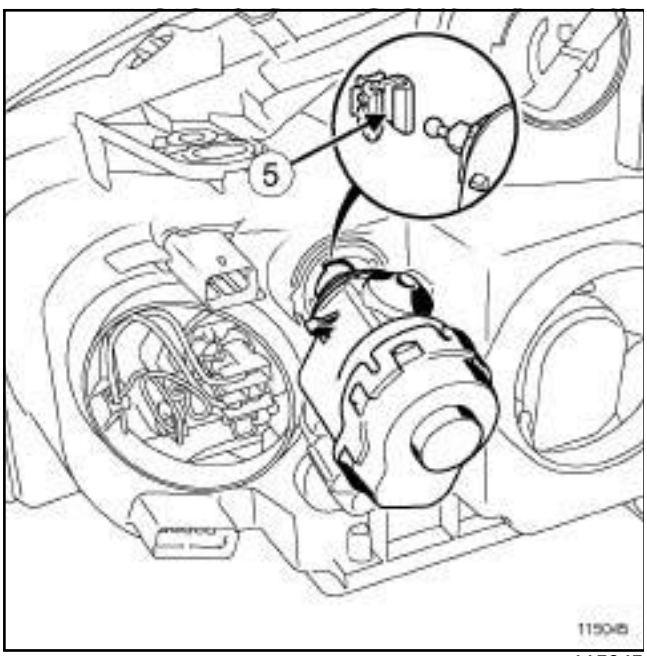
DOCUMENTATION PHASE 1

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



112960



115045

❏ Remove the sealing cover (**4**) .

❏ Pull the reflector shell (headlight lens unit) towards you to bring the clip groove as close as possible to the ball joint.

❏ Insert the ball joint into clip groove (**5**)

> Note:
>
> The ball joint should not just be in contact with the groove, it should be fitted into it.

❏ Clip in the actuator.

II - FINAL OPERATION

❏ Refit:

- the sealing cover,
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

❏ Lower the vehicle.

DISCHARGE LAMPS

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Adjust the headlight beam (see **80B**, **Headlights**, **Headlight: Adjustment**, page **80B-9**) .

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

DOCUMENTATION PHASE 2

REMOVAL

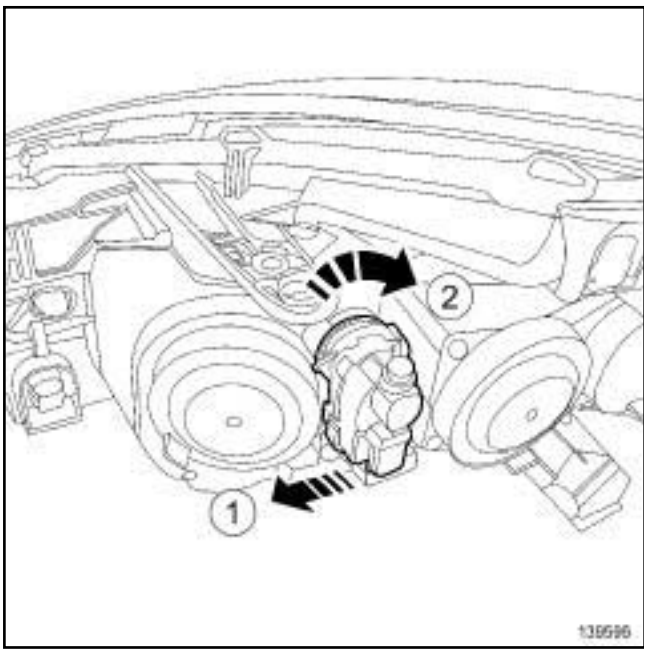
I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

❏ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



139596

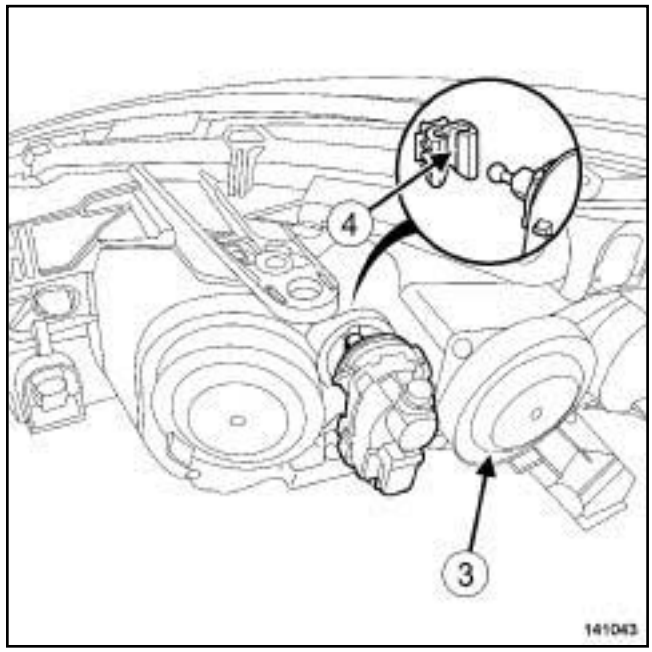
❏ Press on (**1**) .

❏ Unclip the beam adjustment actuator (**2**) by turning it a quarter of a turn clockwise.

❏ Remove the beam adjustment actuator by unclipping the ball joint from the clip groove.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



141043

❏ Remove the sealing cover (**3**) .

❏ Pull the reflector shell to bring the clip groove as close as possible to the ball joint of the beam adjustment actuator.

❏ Fit the beam adjustment actuator ball joint in the clip groove (**4**) .

> Note:
>
> The ball joint should not just be in contact with the groove, it should be fitted into it.

❏ Clip the beam adjustment actuator by turning it a quarter of a turn anti-clockwise.

II - FINAL OPERATION

❏ Refit:

- the sealing cover,
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

❏ Adjust the headlight beam (see **80B**, **Headlights**, **Headlight: Adjustment**, page **80B-9**) .

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),

DOCUMENTATION PHASE 2

- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

DISCHARGE LAMPS

Equipment required
Diagnostic tool

Tightening torques ▽	
steering box bolt	**105 N.m**

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

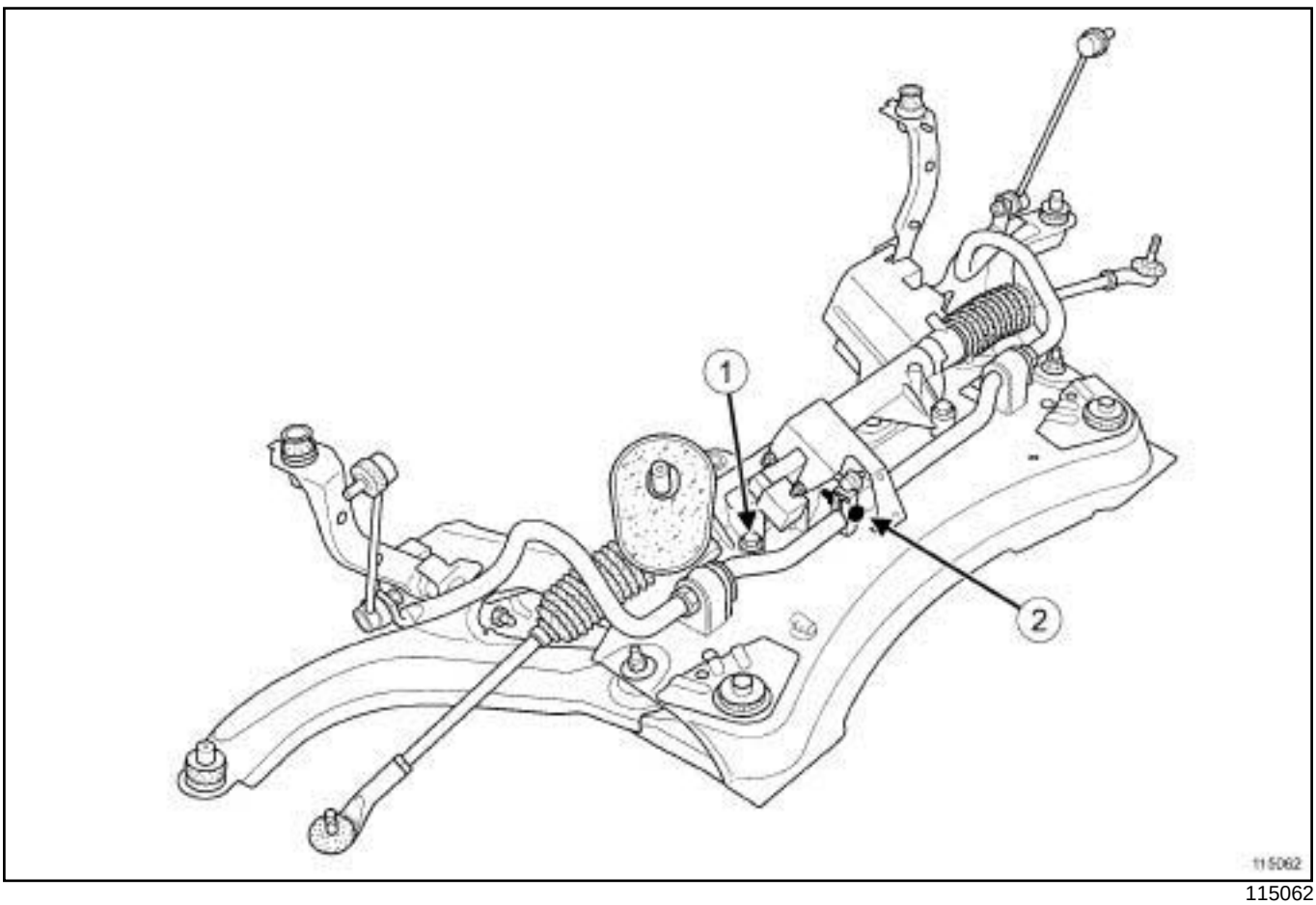
❏ Remove:

- the front wheels (see **Wheel: Removal - Refitting**) (MR 392, 35A, Wheels and tyres),

- the front axle subframe (see **Front axle subframe: Removal - Refitting**) (MR 392, 31A, Front axle components).

II - OPERATION FOR REMOVAL OF PART CONCERNED

EQUIPMENT LEVEL EA1 or EQUIPMENT LEVEL EA2 or EQUIPMENT LEVEL EA3 or EQUIPMENT LEVEL EA4 or EQUIPMENT LEVEL EA5



115062

❏ Remove the nut (**1**) from the height sensor support.

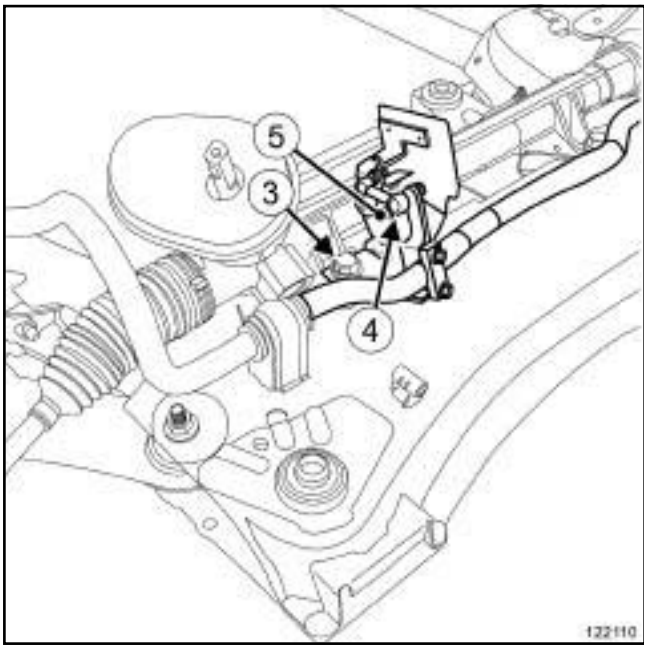
❏ Undo the linkage bolt (**2**) .

❏ Disconnect the height sensor connector.

❏ Remove the height sensor.

DISCHARGE LAMPS

EQUIPMENT LEVEL SPORT



122110

❏ Remove the steering box bolt (**3**) .

❏ Unclip the bracket ball joint (**4**) .

❏ Remove the headlight beam adjustment front sensor with its mounting (**5**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

EQUIPMENT LEVEL EA1 or EQUIPMENT LEVEL EA2 or EQUIPMENT LEVEL EA3 or EQUIPMENT LEVEL EA4 or EQUIPMENT LEVEL EA5

❏ Refit the headlight beam adjustment front sensor.

❏ Refit the linkage on the flat surface of the anti-roll bar.

❏ Refit the bolt of the height sensor support.

❏ Retighten the linkage bolt.

❏ Connect the headlight beam adjustment front sensor connector.

EQUIPMENT LEVEL SPORT

❏ Fit the headlight beam adjustment front sensor with its mounting.

❏ Refit the steering box bolt.

❏ Clip the ball joint onto the bracket.

❏ Torque tighten the **steering box bolt (105 N.m)**.

II - FINAL OPERATION

❏ Refit:

- the front wheels (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment),
- the front axle subframe (see **Front axle subframe: Removal - Refitting**) (MR 392, 31A, Front axle components).

❏ If replacing the headlight beam adjustment front sensor, carry out the necessary operations using the **Diagnostic tool** (see **MR 394 Fault finding, 80B, Headlights, Fault finding - Replacement of components**).

Equipment required
Diagnostic tool

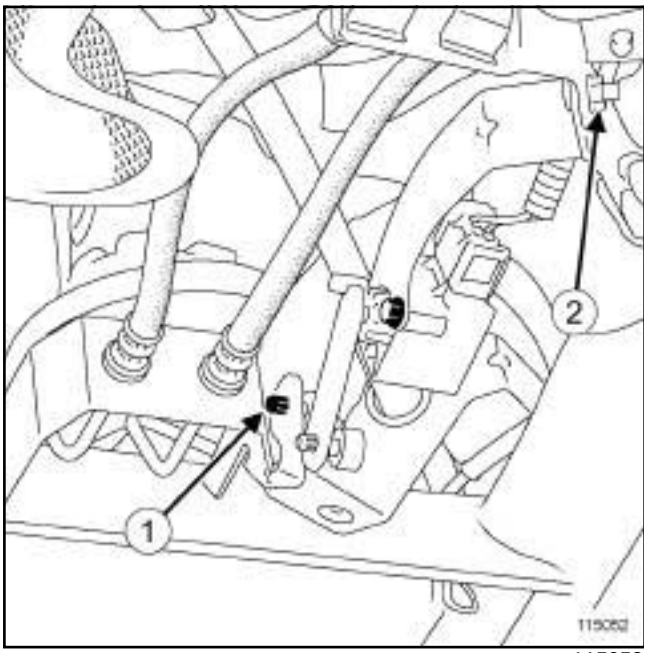
Tightening torques ▽	
rear height sensor support mounting bolts	**8 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR392, 02, Lifting equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



115052

❑ Unlock the clip of the return linkage (**1**) .

❑ Remove the rear height sensor support mounting bolt (**2**) .

❑ Disconnect the rear height sensor.

❑ Remove the rear height sensor with its support.

REFITTING

I - REFITTING PREPARATIONS OPERATION

❑

WARNING
The headlight beam adjustment sensor clip is very fragile. If the clip breaks during the removal operation, the whole headlight beam adjustment sensor must be replaced.

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the rear height sensor with its support.

❑ Connect the rear height sensor.

❑ Refit the rear height sensor support mounting bolt.

❑ Torque tighten the **rear height sensor support mounting bolts (8 Nm)**.

❑ Clip on the return linkage clip.

❑ If replacing the rear height sensor, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 80B, Headlights).

Tightening torques ▽	
high voltage unit mounting bolts	12 Nm

REMOVAL

I - REMOVAL PREPARATION OPERATION

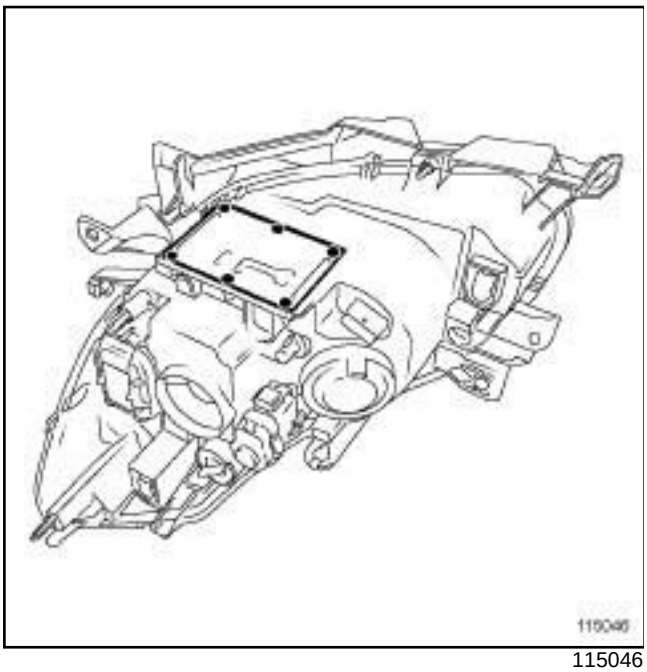
❑

IMPORTANT
- To prevent eye injuries, do not look at a xenon bulb when lit (lighting voltage of **20,000 V**).
- Wait until the « computer-power unit » assemblies have cooled before removing them.
- It is forbidden to switch on a xenon bulb if the bulb is not fitted in the headlight (risk of serious eye injury).

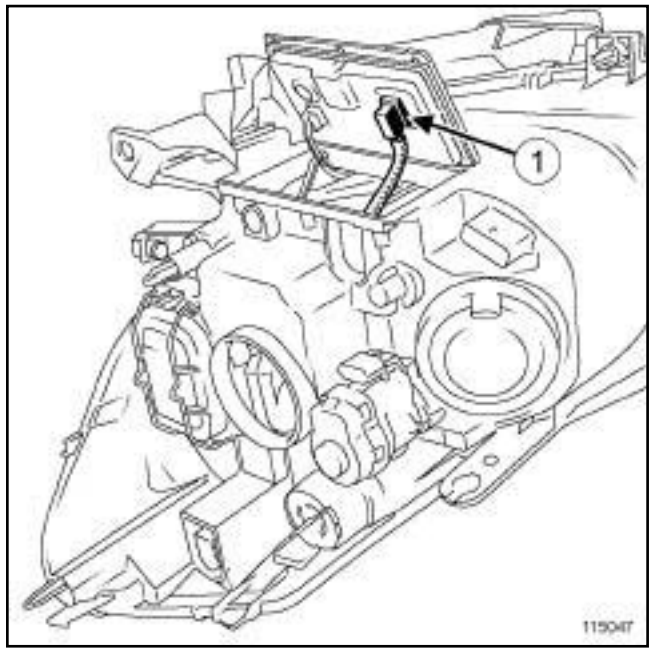
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the headlight (see **Xenon headlight: Removal - Refitting**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

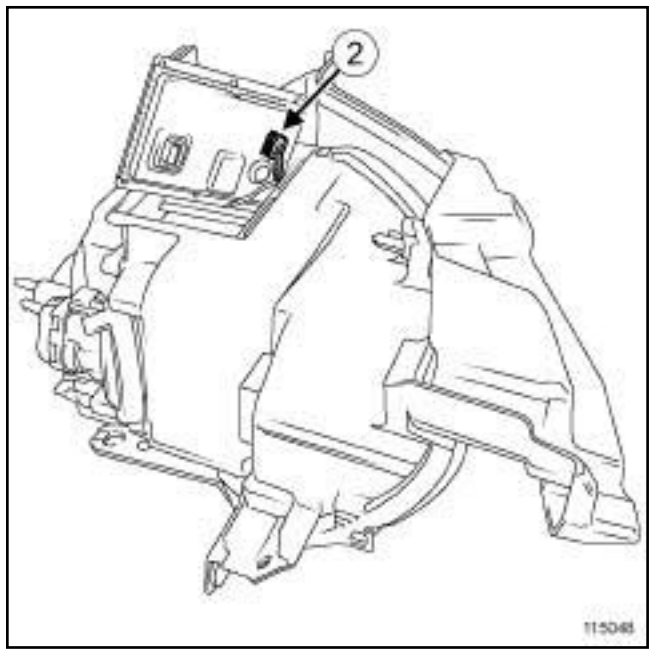

115046

❑ Remove the mounting bolts from the high voltage unit.



115047

❑ Disconnect the connector (**1**) .



115048

❑

Note:
Locking the connector is a delicate operation.

❑ Disconnect the connector with caution (**2**) .

❑ Remove the high voltage unit.

REFITTING

I - REFITTING PREPARATION OPERATION

❏

> **WARNING**
> The seal must be replaced when replacing the high voltage unit.

II - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connectors.

> Note:
> Check that the connectors are locked correctly.

❏ Refit the high voltage unit with a new seal.

❏ Tighten to torque the **high voltage unit mounting bolts (12 Nm)**.

III - FINAL OPERATION

❏ Refit the headlight (see **Xenon headlight: Removal - Refitting**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

DISCHARGE LAMPS

Equipment required
Diagnostic tool

REMOVAL

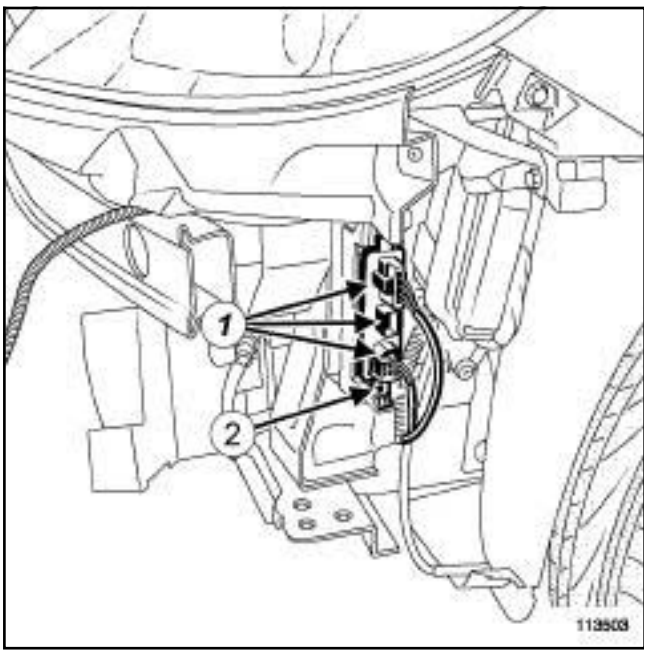
I - REMOVAL PREPARATION OPERATION

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

> Note:
>
> The computer controls the additional cornering lights and the xenon bulbs (depending on the vehicle equipment level).

II - OPERATION FOR REMOVAL OF PART CONCERNED

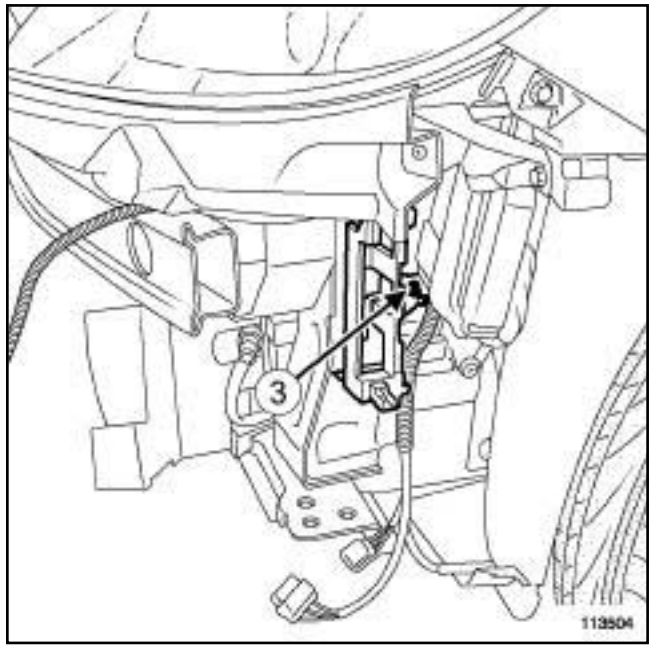


113503

❏ Disconnect the connectors (**1**) .

❏ Remove:

- the bolt (**2**) ,
- the computer.



113504

❏ Remove the nut (**3**) from the computer mounting.

❏ Withdraw the mounting.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Fit the computer support.

❏ Refit the computer.

❏ Connect the connectors.

II - FINAL OPERATION.

❏ Refit the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ If replacing the discharge bulb computer, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 80B, Headlights).

I - LIST OF COMPONENTS

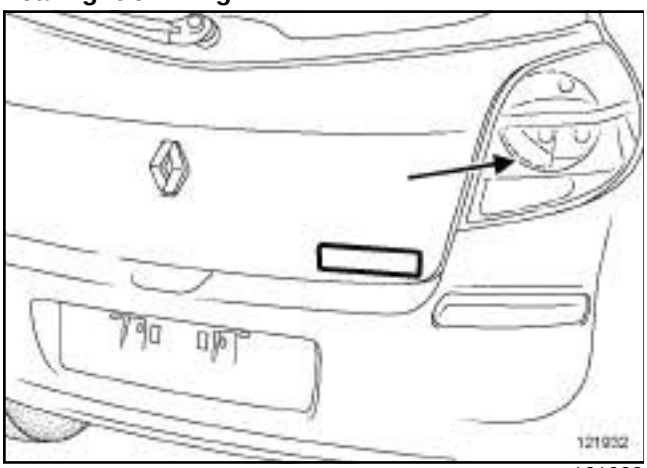
The rear lighting is composed of:

- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**)
- rear light bulbs (see **81A**, **Rear lighting**, **Rear light bulb: Removal - Refitting**, page **81A-7**)
- a high-level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**)
- the rear fog lights (see **81A**, **Rear lighting**, **Rear fog lights: Removal - Refitting**, page **81A-14**)
- the number plate lights (see **81A**, **Rear lighting**, **Number plate light: Removal - Refitting**, page **81A-16**)

II - LOCATION OF COMPONENTS

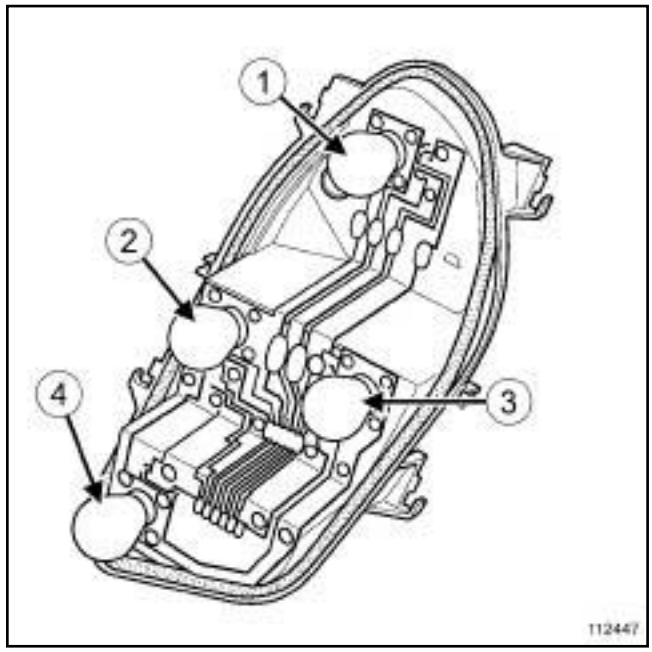
B85 or C85 or S85, and DOCUMENTATION PHASE 1

Rear light on wing



121932

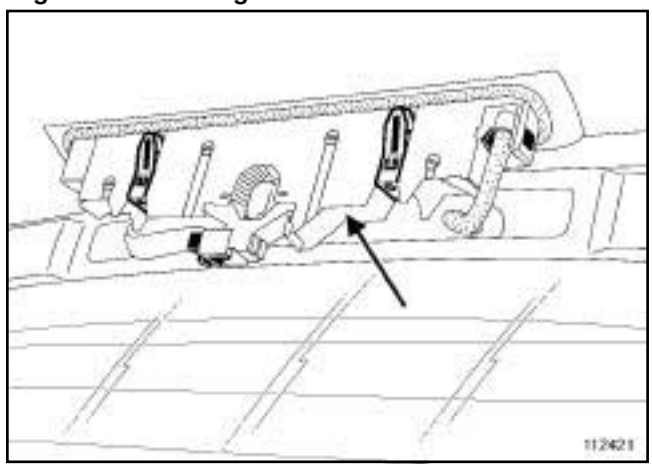
Rear light bulbs



112447

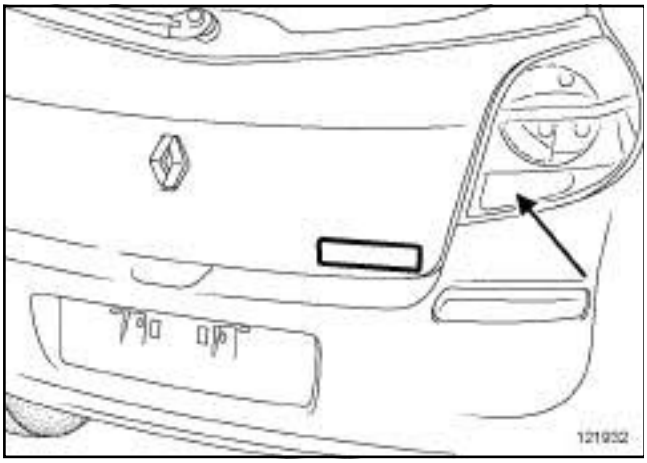
(**1**) Brake light and side light bulb
(**2**) Reversing light bulb
(**3**) Direction indicator bulb
(**4**) Rear fog light bulb

High level brake light



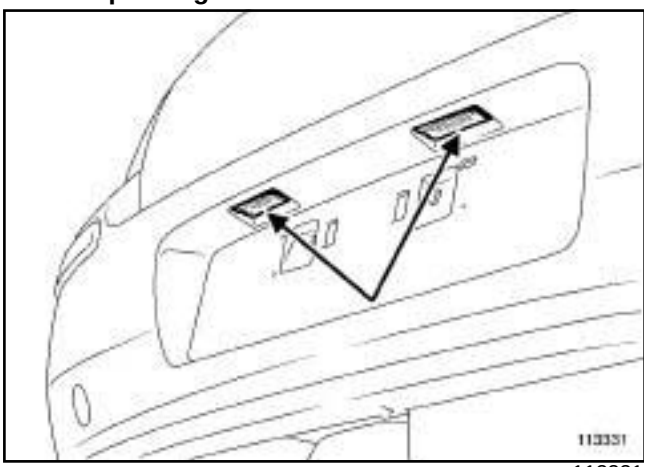
112421

Rear fog light



121932

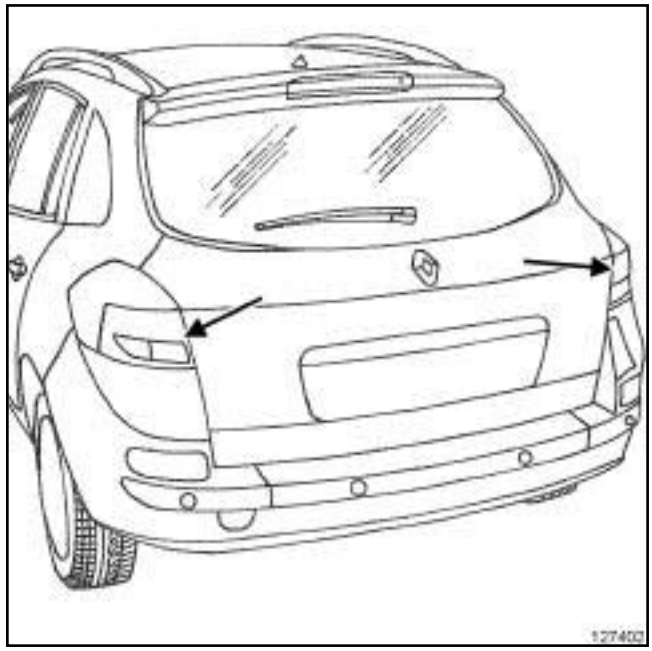
Number plate lights



113331

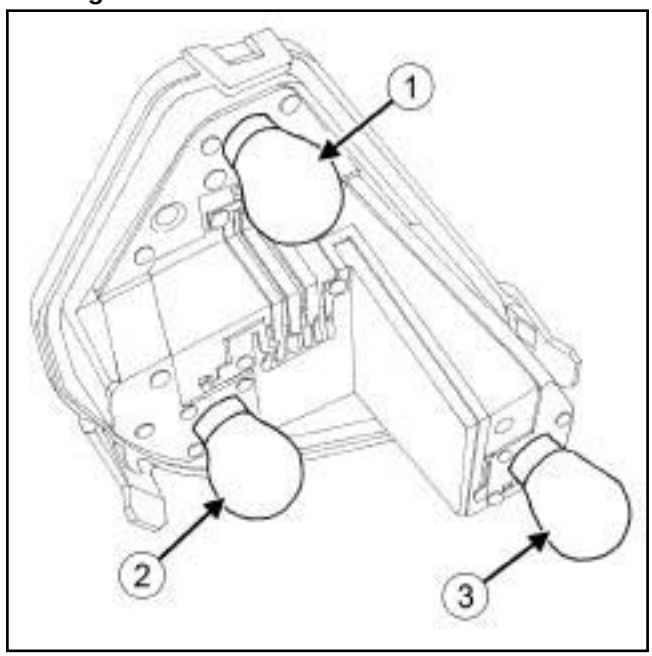
K85, and DOCUMENTATION PHASE 1

Rear lights on the wing



127402

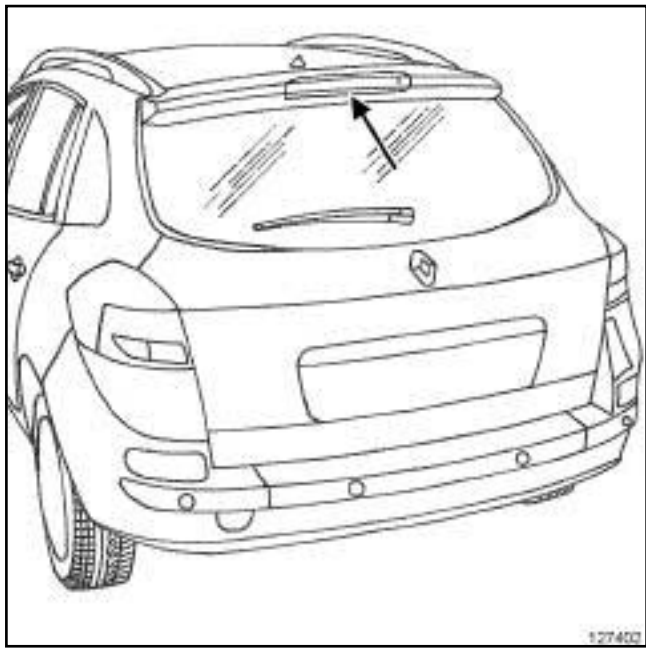
Rear light bulbs



127355

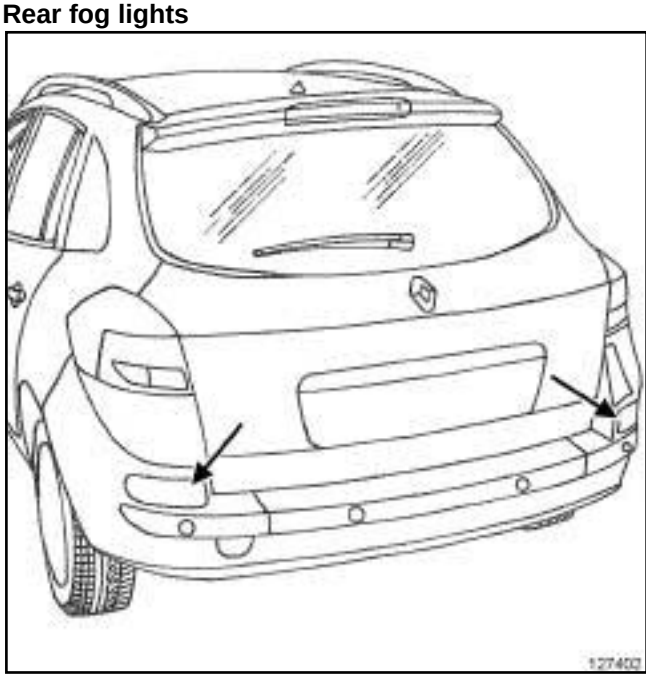
(**1**) Brake light and side light bulb
(**2**) Direction indicator bulb
(**3**) Reversing light bulb

High level brake light



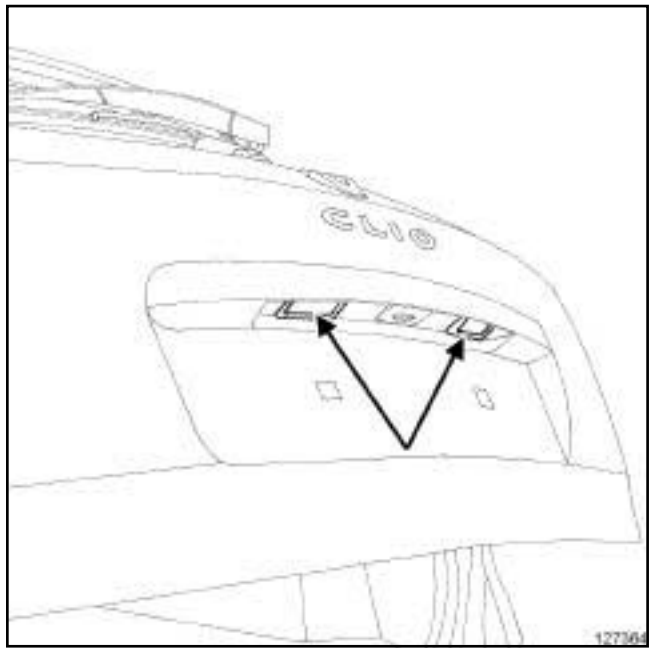
127402

Rear fog lights



127402

Number plate lights



127364

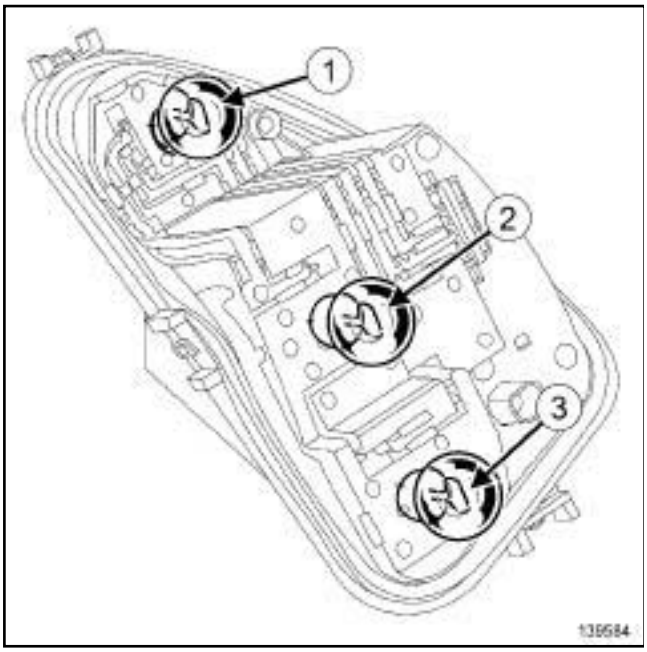
B85 or C85 or S85, and DOCUMENTATION PHASE 2

Rear lights on the wing



139585

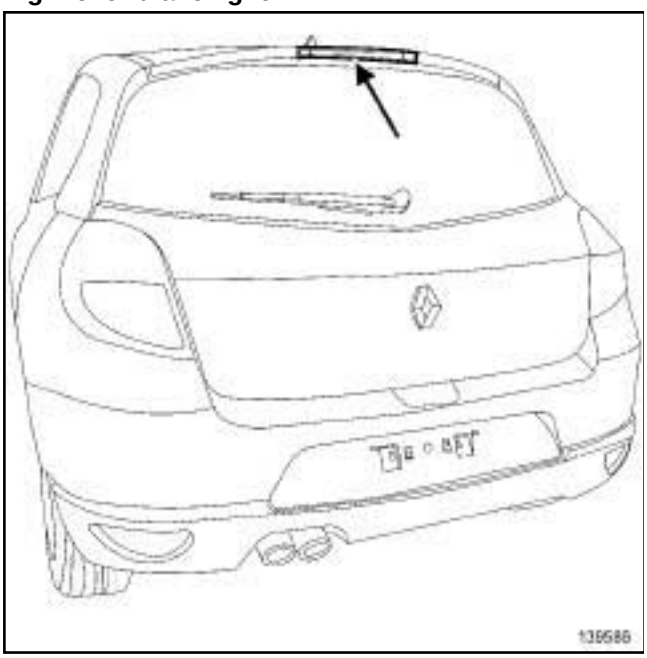
Rear light bulbs



139584

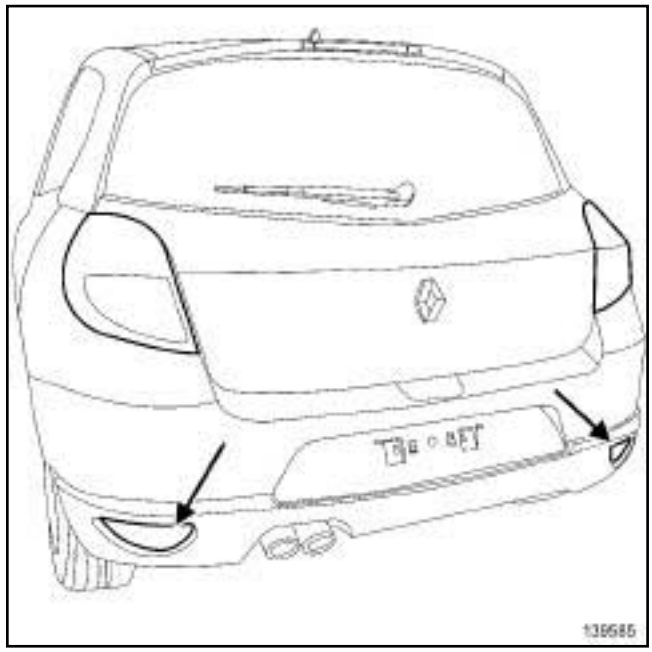
(**1**) Brake light and side light bulb
(**2**) Reversing light bulb
(**3**) Direction indicator bulb

High level brake light



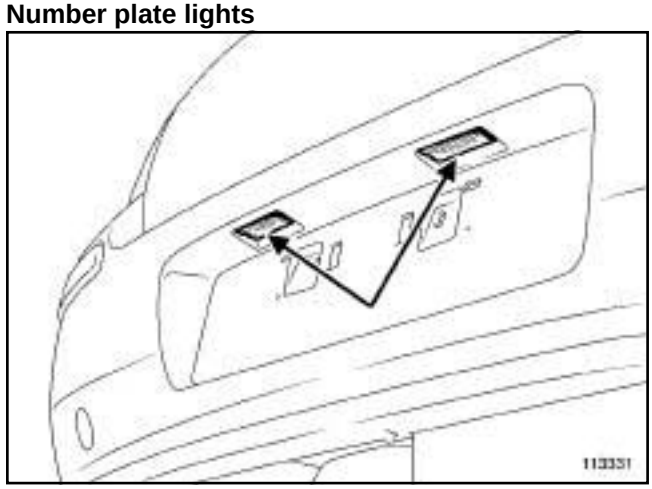
139586

Rear fog lights



139585

Number plate lights



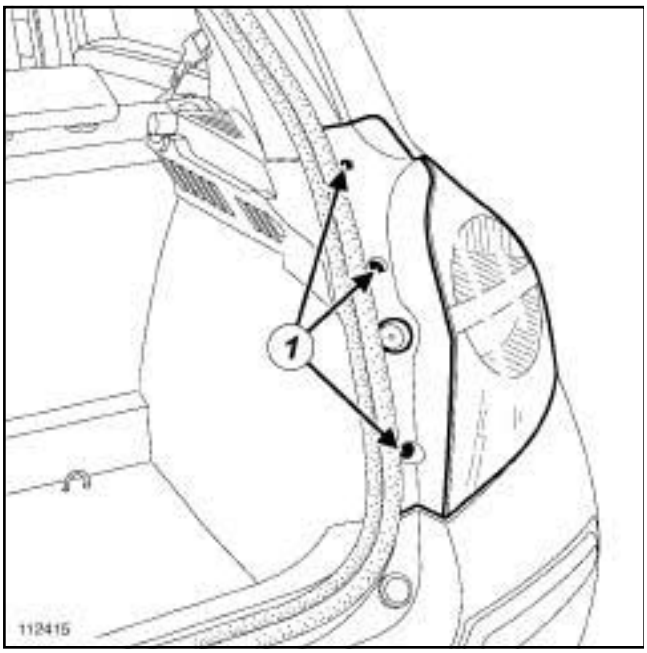
113331

B85 or C85 or S85

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

❏ Open the luggage compartment.



112415

❏ Remove the bolts from the rear wing light (**1**) .

❏ Remove the rear wing light.

❏ Disconnect the connector from the rear light on the wing.

❏ Remove the rear light.

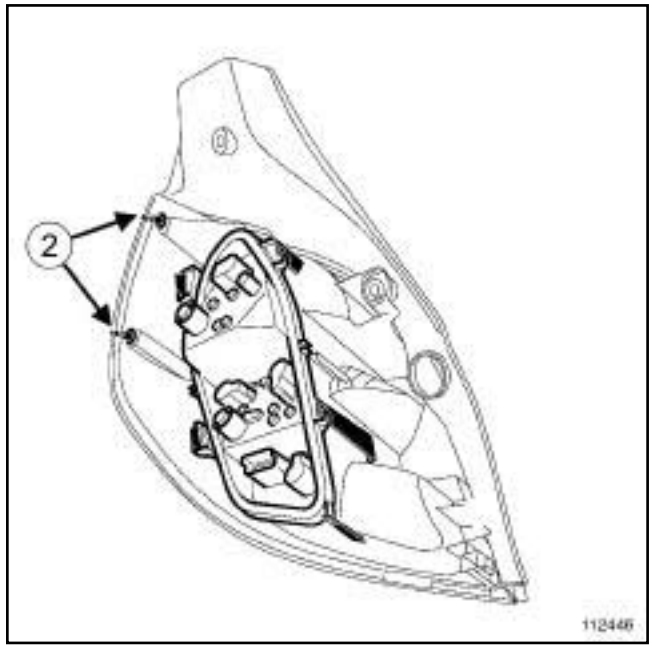
❏ If replacing the rear light, remove the bulbs (see **81A**, **Rear lighting**, **Rear light bulb: Removal - Refitting**, page **81A-7**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ If replacing the rear light, refit the bulbs (see **81A**, **Rear lighting**, **Rear light bulb: Removal - Refitting**, page **81A-7**) .

❏ Connect the connector for the rear light on the wing.



112446

❏ Position the rear light on the wing using the centring devices (**2**) .

❏ Refit the bolts for the rear light on the wing.

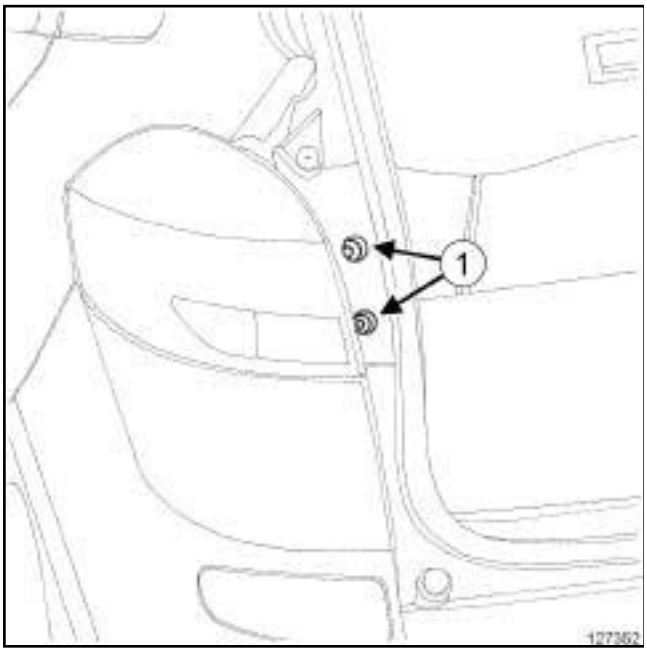
❏ Close the luggage compartment.

K85

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

❏ Open the luggage compartment.



127352

❏ Remove the bolts from the rear wing light (**1**) .

❏ Remove the rear wing light.

❏ Disconnect the connector from the rear light on the wing.

❏ Remove the rear light.

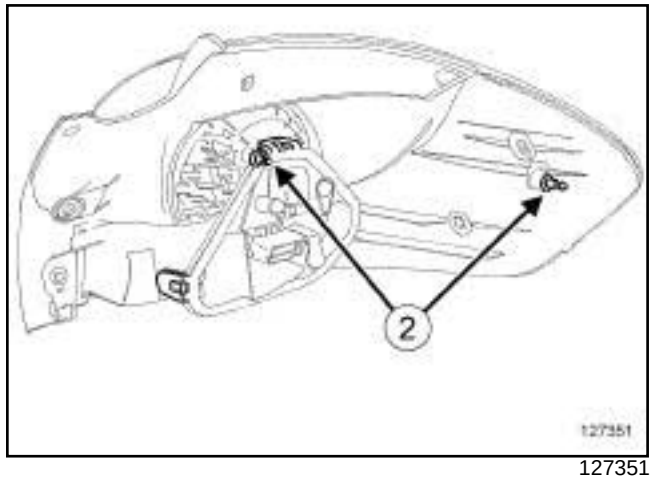
❏ If replacing the rear light, remove the bulbs (see **81A**, **Rear lighting**, **Rear light bulb: Removal - Refitting**, page **81A-7**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ If replacing the rear light, refit the bulbs (see **81A**, **Rear lighting**, **Rear light bulb: Removal - Refitting**, page **81A-7**) .

❏ Connect the connector for the rear light on the wing.



127351

❏ Position the rear light on the wing using the centring devices (**2**) .

❏ Refit the bolts for the rear light on the wing.

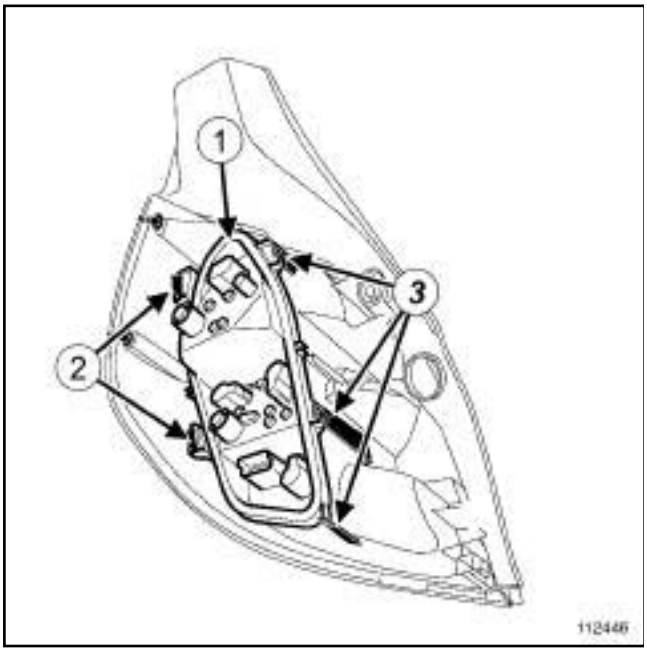
❏ Close the luggage compartment.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the rear light on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .

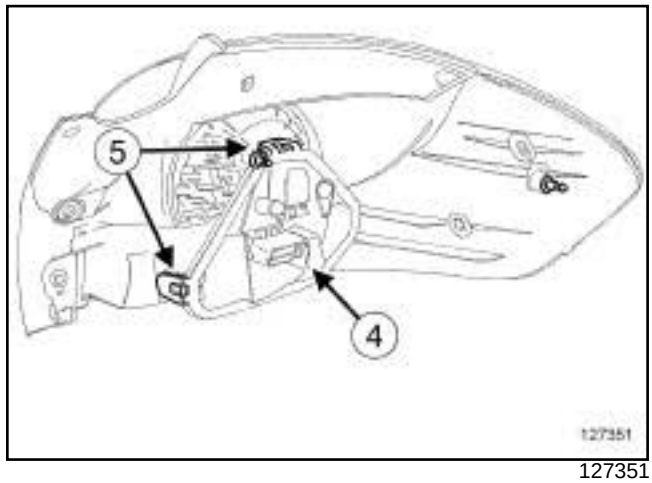
B85 or C85 or S85, and DOCUMENTATION PHASE 1



112446

❏ Unclip the bulb holder plate (**1**) by pressing clips (**2**) and (**3**) .

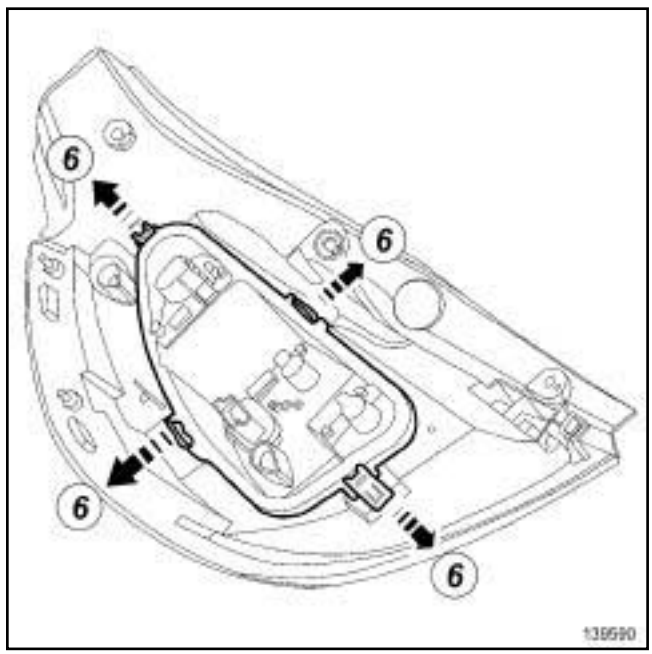
K85, and DOCUMENTATION PHASE 1



127351

❏ Unclip the bulb holder plate by pressing clips (**4**) and (**5**) .

B85 or C85 or S85, and DOCUMENTATION PHASE 2



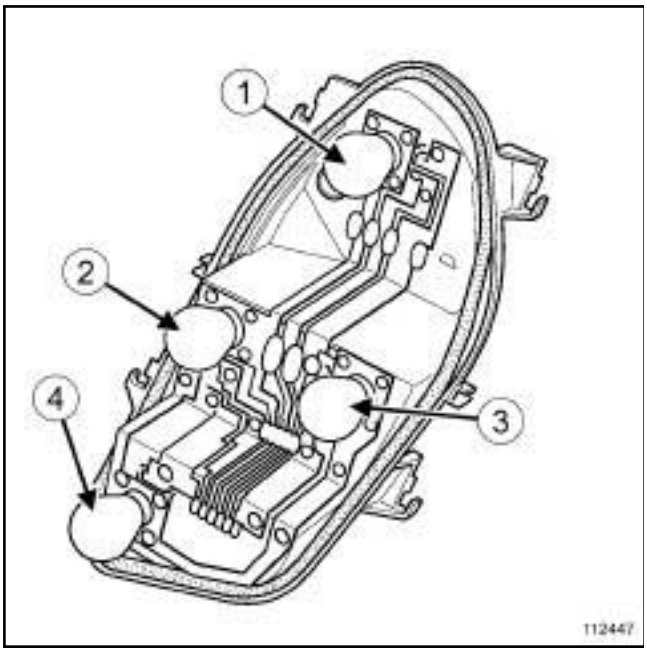
139590

❏ Unclip the bulb holder plate by pressing on the clips (**6**) .

❏ Remove the bulb holder plate.

II - OPERATION FOR REMOVAL OF PART CONCERNED

B85 or C85 or S85, and DOCUMENTATION PHASE 1



112447

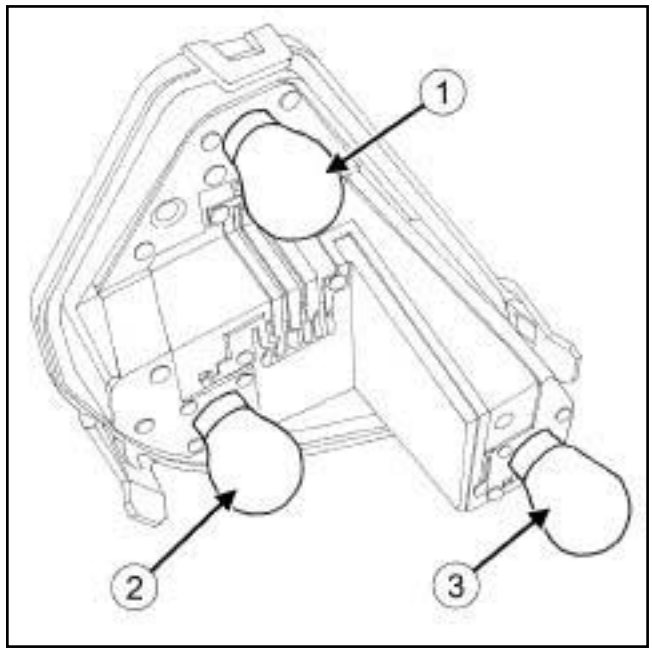
(**1**) Brake light and side light bulb
(**2**) Reversing light bulb
(**3**) Direction indicator bulb
(**4**) Rear fog light bulb

❏ Remove the bulbs from the bulb holders.

Note:

The layout of bulbs is the same for both rear lights.

K85, and DOCUMENTATION PHASE 1



127355

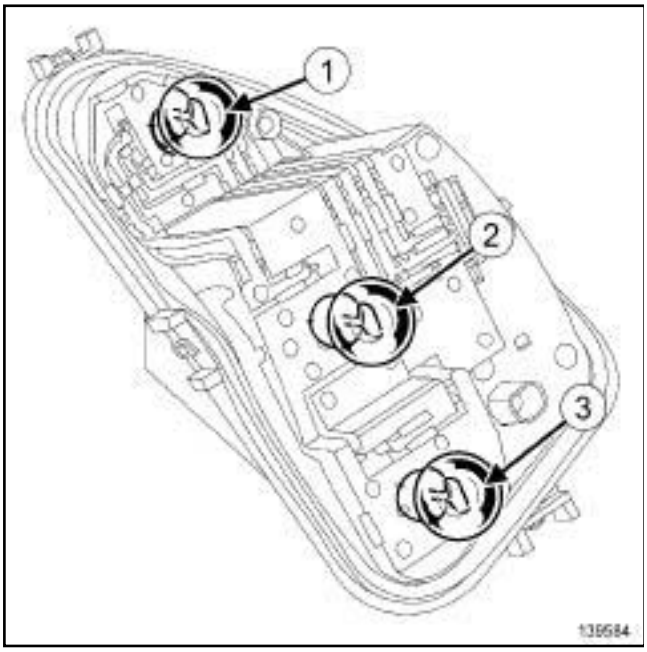
(**1**) Brake light and side light bulb
(**2**) Direction indicator bulb
(**3**) Reversing light bulb

❏ Remove the bulbs from the bulb holders.

Note:

The layout of bulbs is the same for both rear lights.

B85 or C85 or S85, and DOCUMENTATION PHASE 2



139584

(**1**) Brake light and side light bulb
(**2**) Reversing light bulb
(**3**) Direction indicator bulb

❑ Remove the bulbs from the bulb holders.

Note:
The layout of bulbs is the same for both rear lights.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑

Note:
When replacing a bulb, only use approved bulbs.

❑ Refit the bulbs on the bulb holder plate.

II - FINAL OPERATION

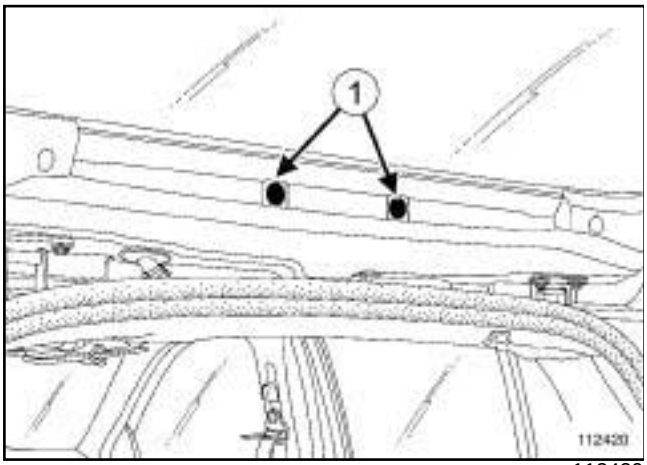
❑ Clip the bulb holder plate onto the rear light.

❑ Refit the rear light on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .

B85 or C85 or S85

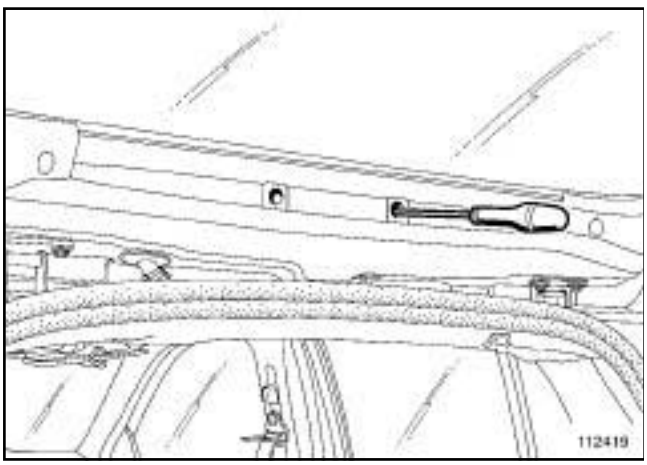
REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



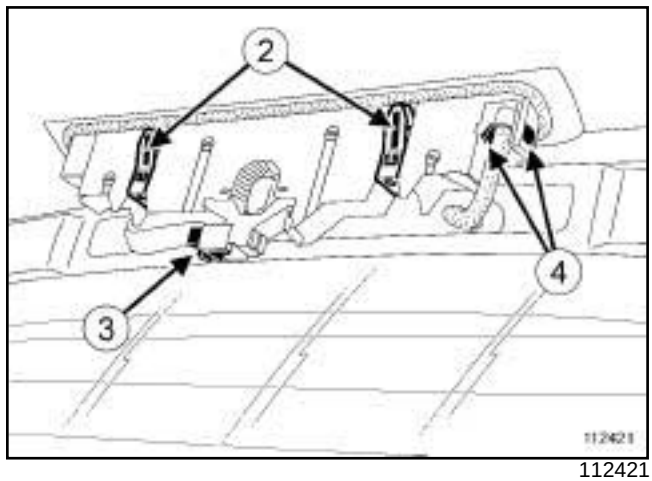
112420

❏ Remove the blanking covers (**1**) .



112419

❏ Insert a screwdriver in the openings to move the clips ***(2)*** .



112421

❏ Apply pressure to the clips (**2**) to unclip the high level brake light.

❏ Partially remove the raised brake light using a flat-blade screwdriver while protecting the tailgate area with masking tape.

❏ Disconnect the connector (**3**) .

❏ Unclip the window washer jet by moving the clips (**4**) .

❏ If replacing the high level brake light, remove the bulb (see **81A**, **Rear lighting**, **High level brake light bulb: Removal - Refitting**, page **81A-12**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ If replacing the high level brake light, refit the bulb (see **81A**, **Rear lighting**, **High level brake light bulb: Removal - Refitting**, page **81A-12**) .

❏ Connect the connector.

❏ Clip:

- the window washer jet,
- the high level brake light.

❏ Refit the blanking covers.

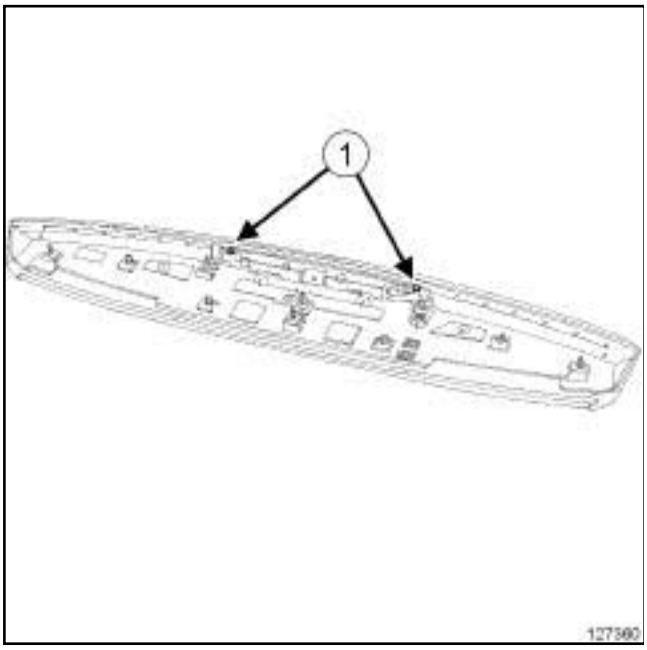
K85

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the tailgate spoiler (see **Tailgate spoiler: Removal - Refitting**) (56A, Exterior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



127360

❏ Remove:

- the bolts (**1**) of the high-level brake light on the tailgate,
- The high-level brake light.

❏ If replacing the high-level brake light,remove the bulb (see **81A**, **Rear lighting**, **High level brake light bulb: Removal - Refitting**, page **81A-12**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ If replacing the high-level brake light, refit the bulb (see **81A**, **Rear lighting**, **High level brake light bulb: Removal - Refitting**, page **81A-12**) .

❏ Refit the high-level brake light on the tailgate.

II - FINAL OPERATION.

❏ Refit the tailgate spoiler (see **Tailgate spoiler: Removal - Refitting**) (56A, Exterior equipment).

K85

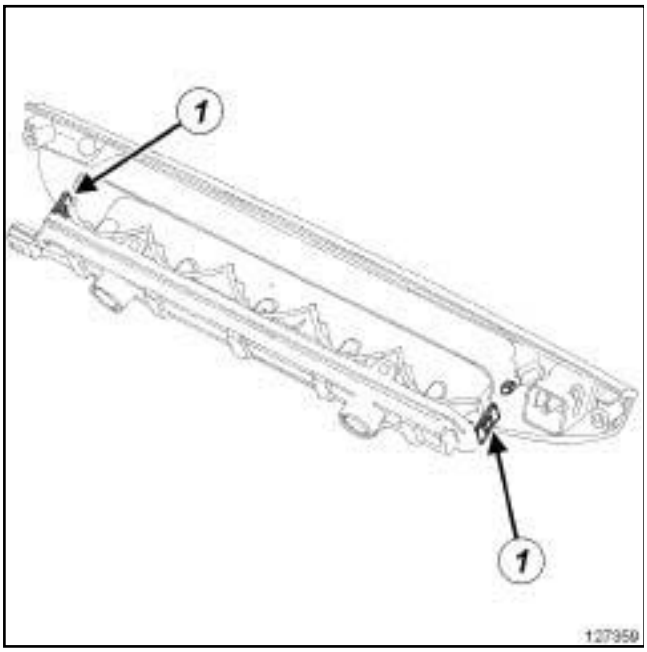
REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove:

- the tailgate spoiler (see **Tailgate spoiler: Removal - Refitting**) ,
- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



127359

❑ Remove:

- the bulb holder by pressing on the clips (**1**) ,
- the bulbs.

Note:
When replacing bulbs, use approved **W5W** bulbs.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Clip:

- the bulbs into the bulb holder,
- the bulb holder onto the high-level brake light.

II - FINAL OPERATION.

❑ Refit:

- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) ,
- the tailgate spoiler (see **Tailgate spoiler: Removal - Refitting**) .

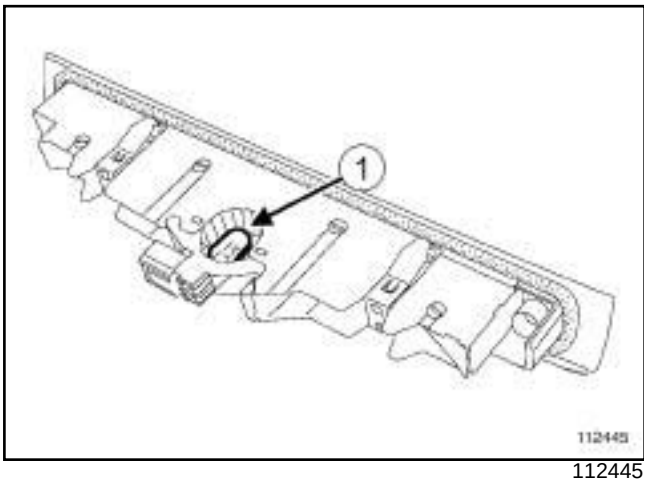
B85 or C85 or S85

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



112445

❑ Remove the bulb (**1**) from the bulb holder.

> Note:
>
> When replacing the bulb, use an approved **W16W** bulb.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the bulb in the bulb holder.

II - FINAL OPERATION.

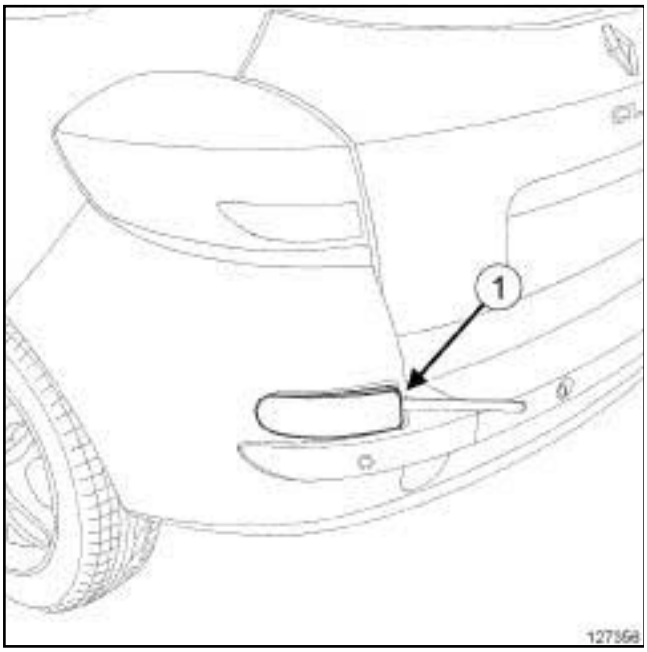
❑ Refit the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

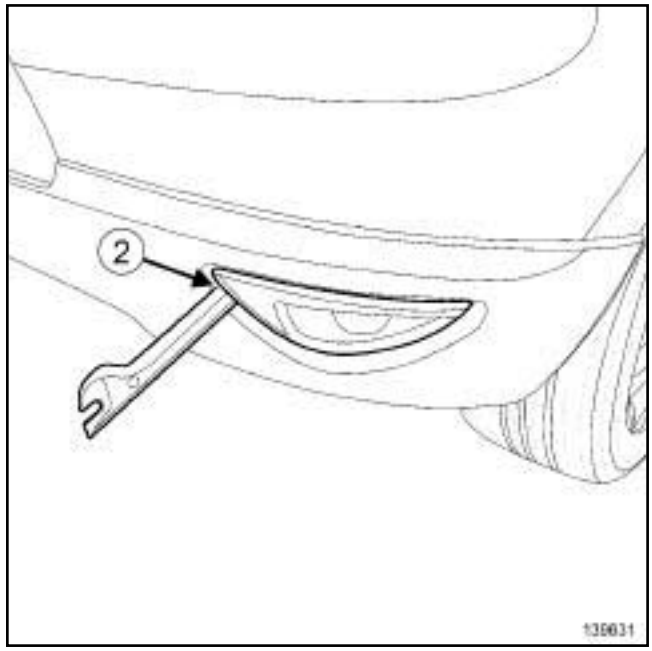
K85, and DOCUMENTATION PHASE 1



127356

❏ Move the rear fog light using the tool **(Car. 1363)** as a lever at (**1**) .

B85 or C85 or S85, and DOCUMENTATION PHASE 2



139631

❏ Move the rear fog light using the tool **(Car. 1363)** as a lever at (**2**) .

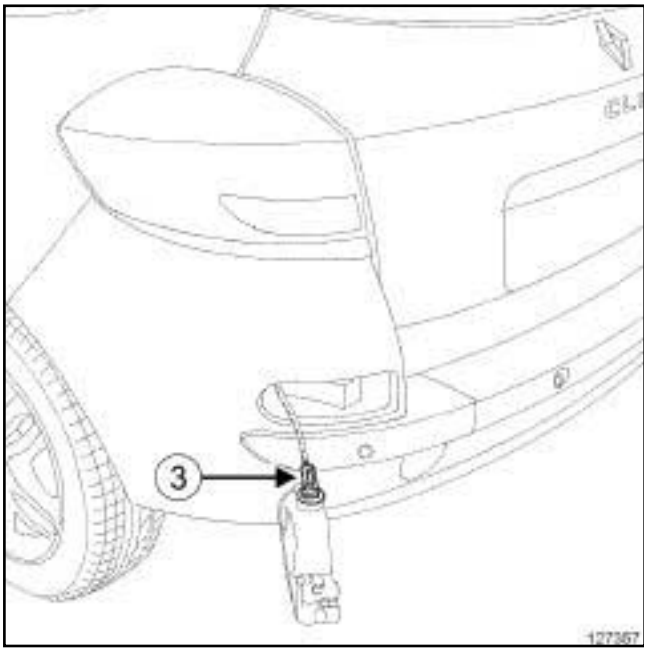
❏ Disconnect the rear fog light connector.

❏ Remove the rear fog light.

REFITTING

I - REFITTING PREPARATION OPERATION

K85, and DOCUMENTATION PHASE 1

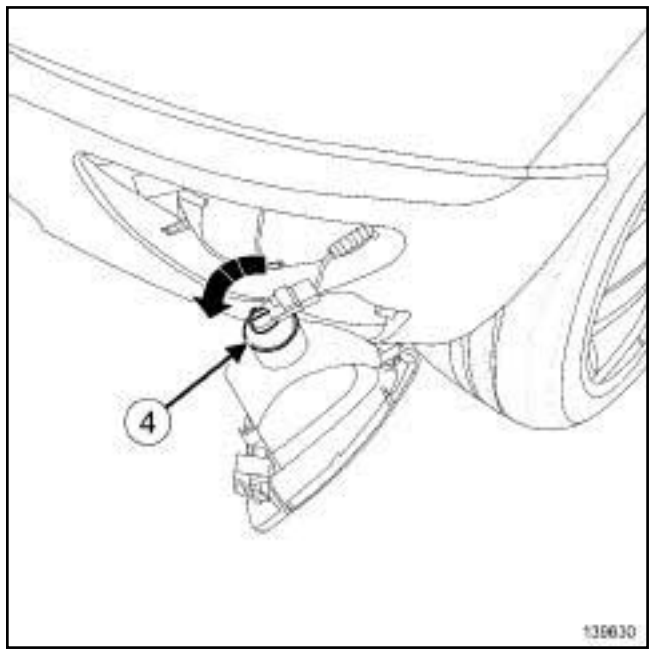


127357

❏ If the indicator light bulb needs replacing, remove:

- the bulb holder (**3**) by turning it forty-five degrees counter-clockwise,
- the bulb from the bulb holder.

B85 or C85 or S85, and DOCUMENTATION PHASE 2



139630

❏ If the indicator light bulb needs replacing, remove:

- the bulb holder (**4**) by turning it forty-five degrees counter-clockwise,
- the bulb from the bulb holder.

❏ When replacing a bulb, use an approved bulb.

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

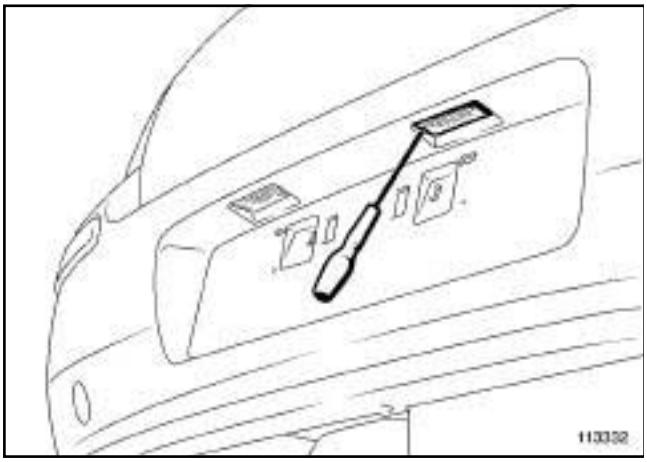
- the bulb on the bulb holder,
- the bulb holder by turning it forty-five degrees clockwise.

❏ Connect the rear fog light connector.

❏ Clip the fog light onto the rear bumper.

REMOVAL

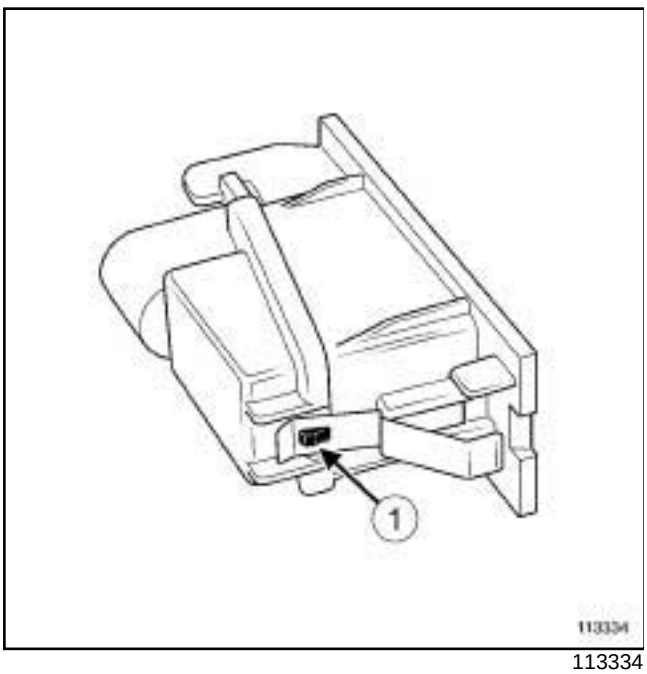
OPERATION FOR REMOVAL OF PART CONCERNED



113332

❏ Remove the licence plate light using a flat-blade screwdriver.

❏ Disconnect the connector.



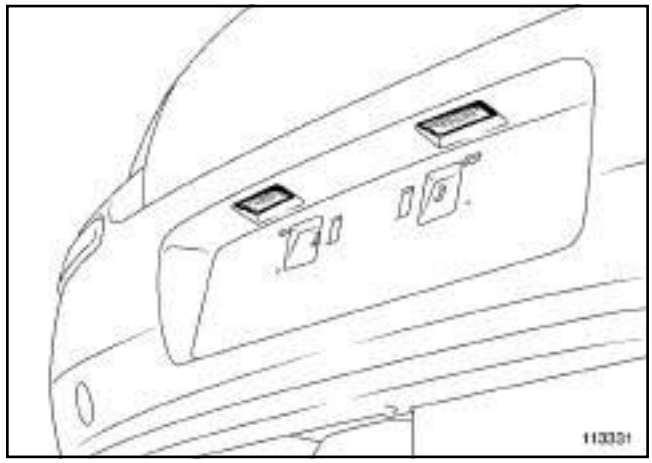
113334

❏ Unclip the light at (**1**) to gain access to the bulb.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ When replacing a bulb, use an approved bulb.



113331

❏ Connect the connector.

❏ Refit the light.

I - GENERAL INFORMATION

Vehicles may be fitted with the following units for lighting the interior of the passenger compartment, depending on the level of equipment:

- a courtesy light (front central zone),
- a courtesy light (rear central zone),
- courtesy mirror lights (driver and passenger),
- a glovebox light,
- footwell lights located in the centre of the front door panel,
- a boot light.

The courtesy lights located on the interior roof trim may be equipped as follows:

- for the central front courtesy light:
  - a light without map-reading light,
  - a light with passenger-side map reading light,
  - a light with two map-reading lights.

  for the central rear courtesy light:
  - a light without map-reading light,
  - a light with two map-reading lights.

II - OPERATIONAL PROGRAMMING FOR THE LIGHTING

The interior lights are automatically and instantly switched on by the UCH:

- when a door or the tailgate is opened,
- on unlocking the opening elements by the remote control or by the detection of presence or movement by the exterior opening control (in hands-free mode),
- on removal of the key or the Renault card.

To switch off the interior lights, the UCH enforces the following, depending on the circumstances:

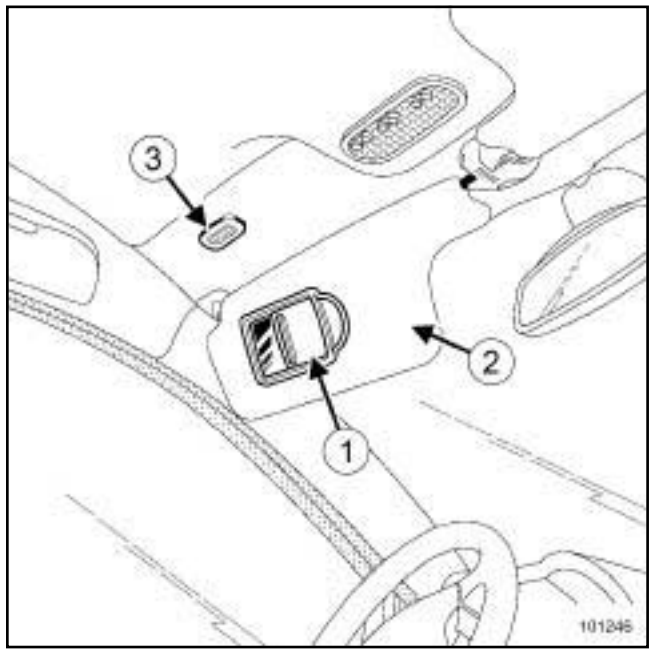
- the switching off, without delay, on closure of the opening elements by the remote control or the Renault card.
- delayed (progressive) switching off:
  - after the last door or the boot is closed,
  - on unlocking the opening elements by the remote control or by the detection of presence or movement by the exterior opening control (in hands-free mode),
  - after the engine has started.

Note:

The UCH controls the switching off of the interior lights after a delay of approximately **20 minutes** when the light is in forced on position.

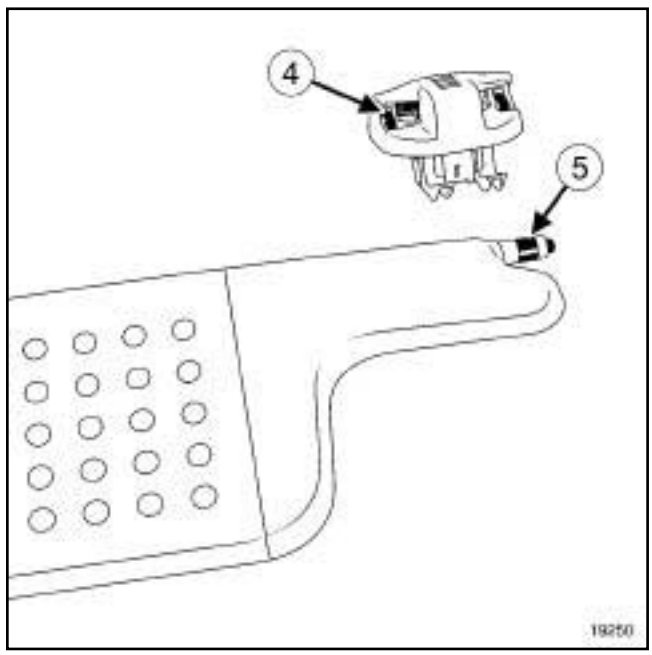
III - OPERATION OF THE COURTESY LIGHT

The courtesy mirrors may be fitted with a light incorporated into the headlining.



101246

The switch is located on the cover (**1**) of the sun visor mirror (**2**) .



19250

The courtesy light supply (**3**) passes via the contact (**4**) implanted on the central mounting and via the sun visor contact (**5**) .

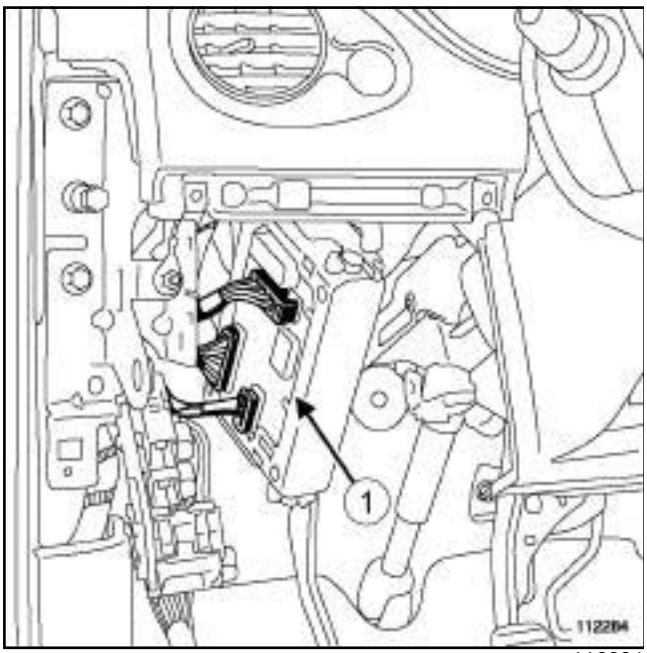
Note:

Operation of the switch can be checked by connecting a multimeter at (**5**) :

- mirror cover closed (switch open) = light out = infinite resistance,
- mirror cover open (switch closed) = light on = zero resistance.

No.	Description
(1)	UCH
(2)	Passenger compartment fuse and relay box
(3)	Front / rear courtesy light
(4)	Vanity light
(5)	Glovebox light
(6)	Door lower light
(7)	Luggage compartment light

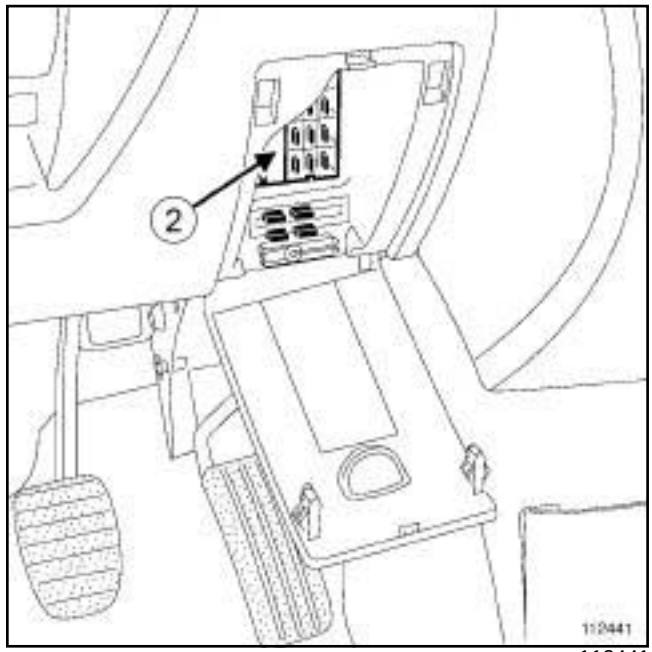
I - UCH



112284

UCH (**1**)

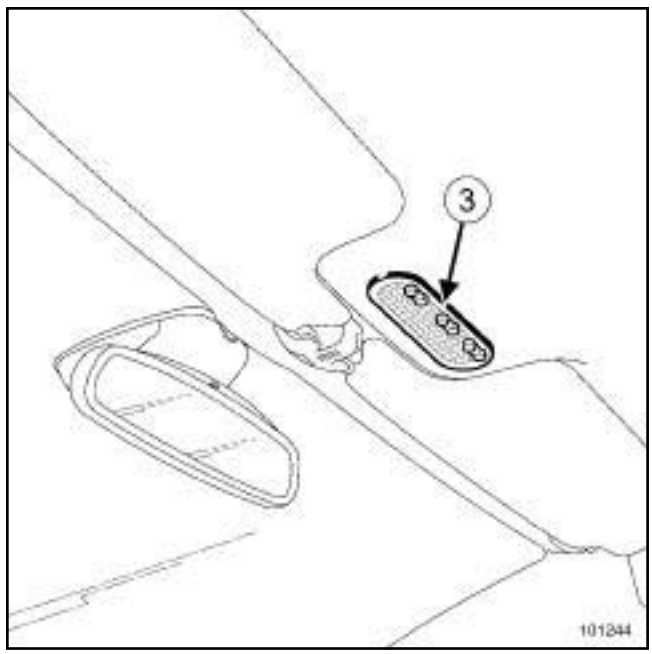
II - PASSENGER COMPARTMENT FUSE AND RELAY BOX



112441

Passenger compartment fuse and relay box (**2**)

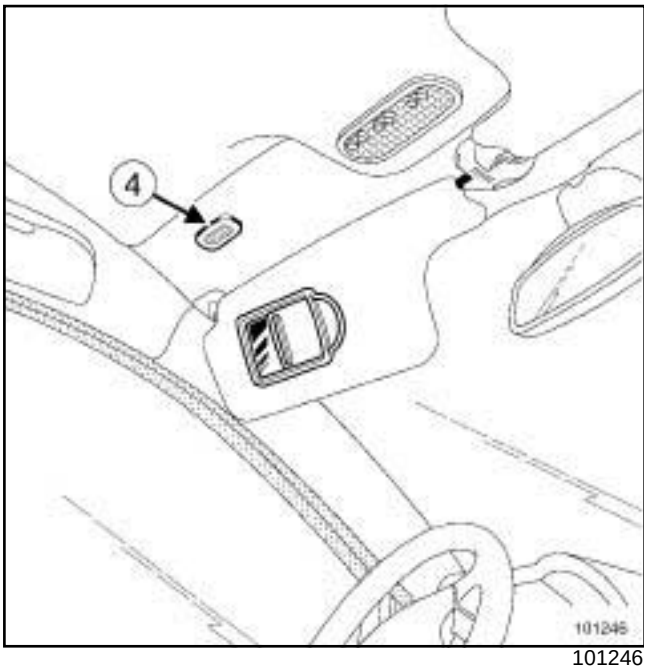
III - FRONT / REAR COURTESY LIGHT



101244

Courtesy light (**3**) integrated in the headlining

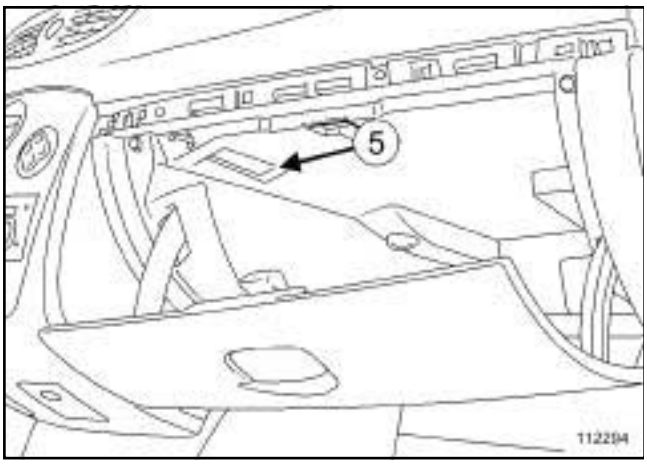
IV - COURTESY LIGHT



101246

Courtesy light (**4**)

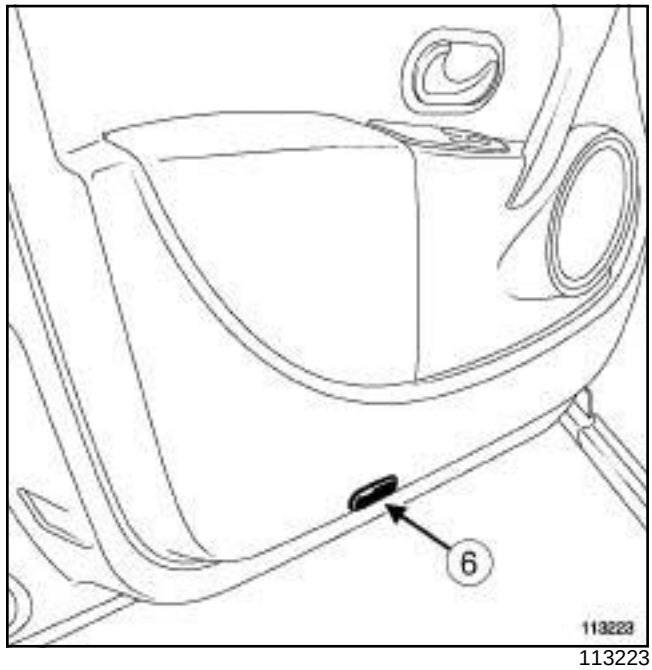
V - GLOVEBOX LIGHT



112294

Glovebox light (**5**)

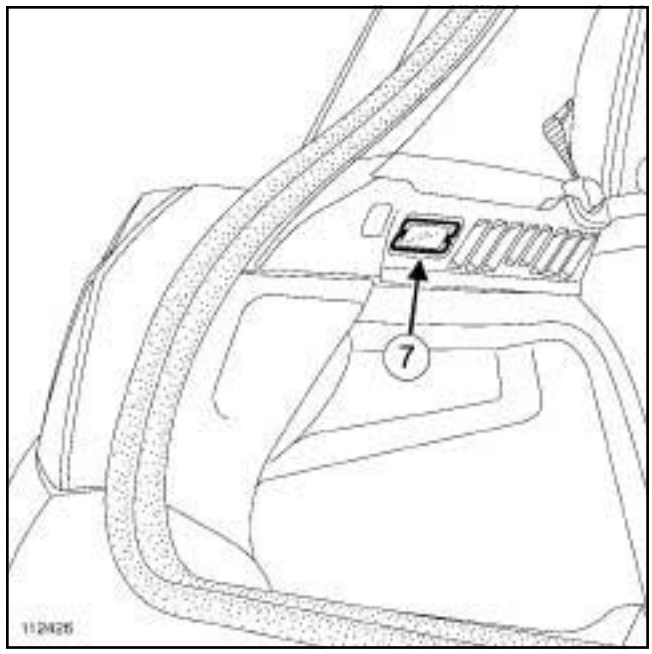
VI - LOWER DOOR LIGHT



113223

Lower door light (**6**)

VII - LUGGAGE COMPARTMENT LIGHT

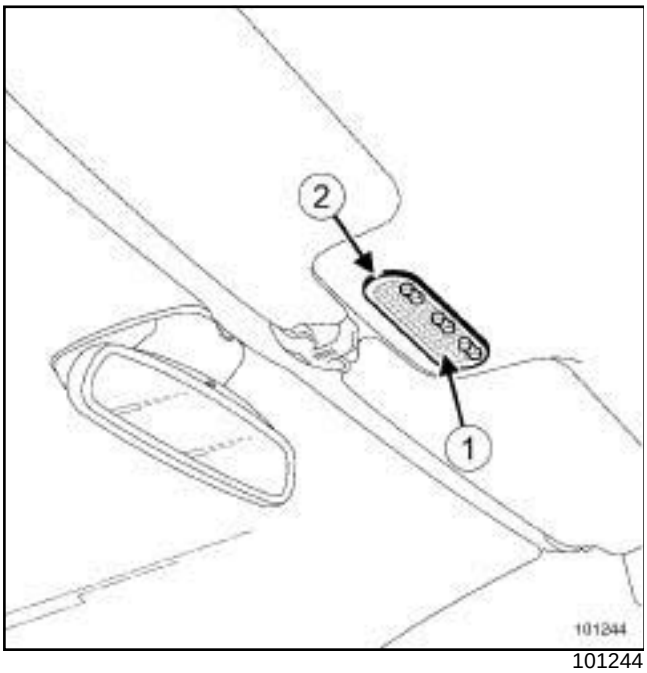


112426

Luggage compartment light (**7**)

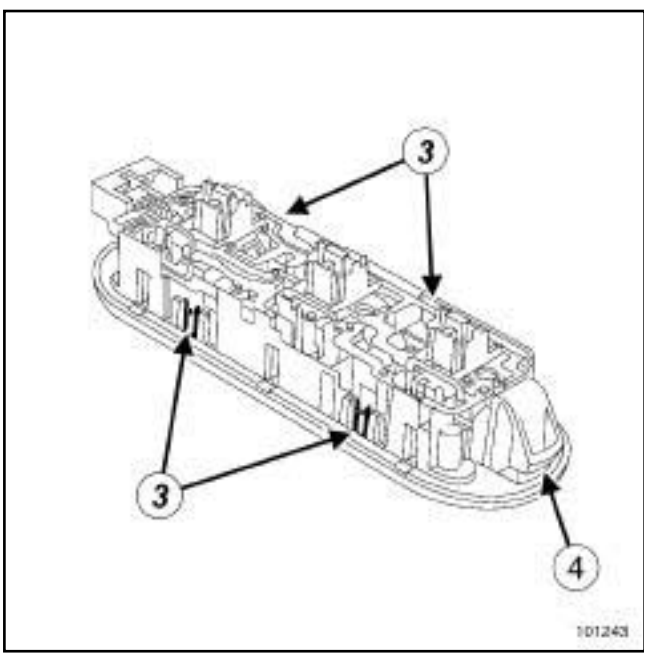
REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



101244

❏ Unclip the translucent cover (**1**) using a flat-blade screwdriver, inserting it into notch (**2**) .



101243

❏ Pull on the securing tabs .

❏ Press on the clip (**4**) using a flat-blade screwdriver to remove the interior light from the headlining.

❏ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Replace the bulb with an approved **W5W** bulb.

❏ Connect the connector.

❏ Refit the courtesy light.

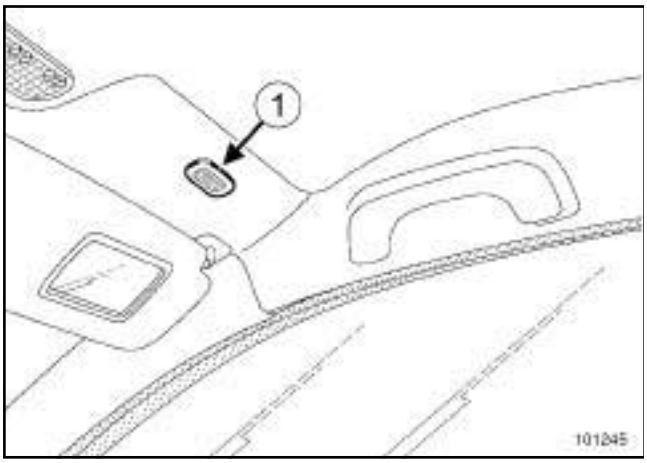
❏ Clip the translucent cover in place.

S/VIS MIR+FOLD+LIGHT

Special tooling required	
Car. 1597	Trim removal lever.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



101245

❏ Unclip the courtesy light at (**1**) using the **(Car. 1597)**.

❏ Remove the courtesy light.

❏ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

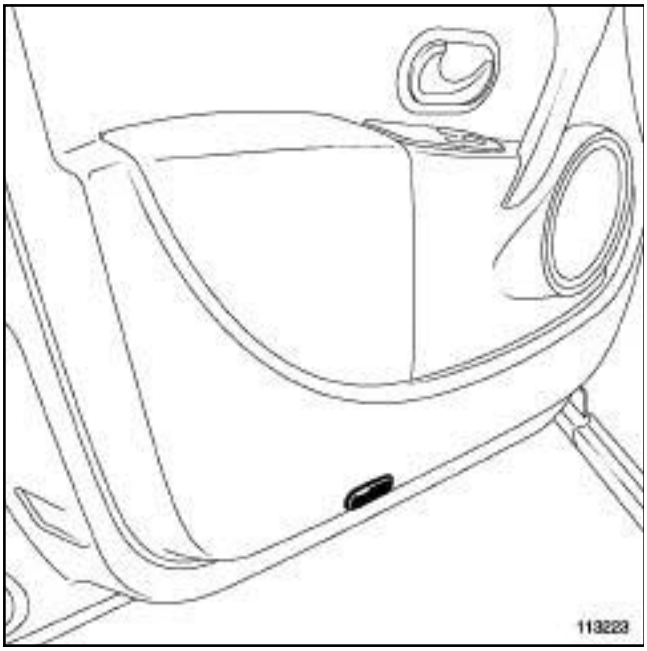
❏ Replace the bulb with an approved **W5W** bulb.

❏ Connect the connector.

❏ Clip on the light ***(1)*** .

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



113223

❏ Unclip the light with a small flat-blade screwdriver.

❏ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Replace the bulb with an approved **W5W** bulb.

❏ Connect the connector.

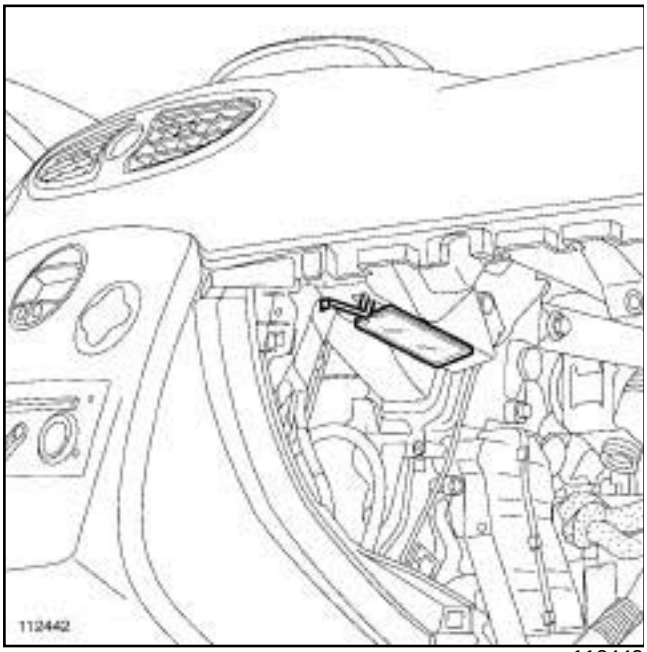
❏ Refit the light.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112442

❑ Remove the glove compartment light.

❑ Disconnect the connector.

> Note:
>
> The switch is built into the light.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Replace the bulb with an approved **C5W** bulb.

❑ Connect the connector.

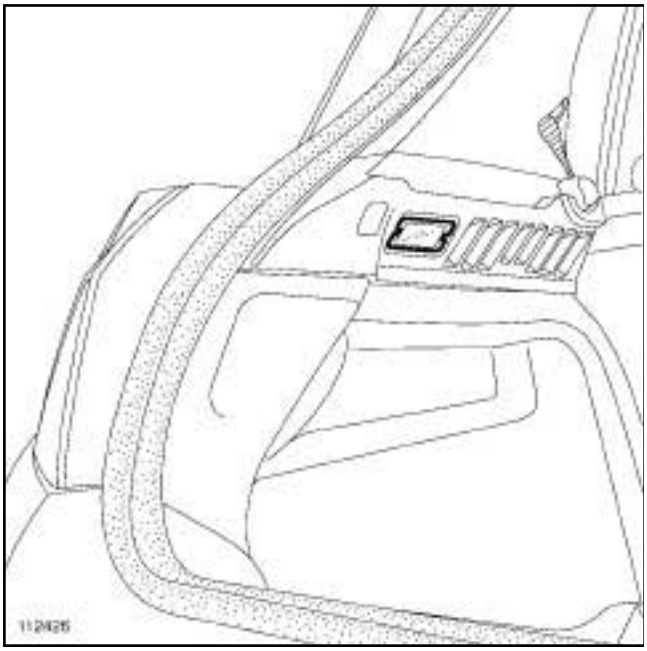
❑ Clip the light in place.

II - FINAL OPERATION.

❑ Refit the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



112426

❏ Unclip the luggage compartment light.

❏ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ To replace a bulb, use an approved **C5W** bulb.

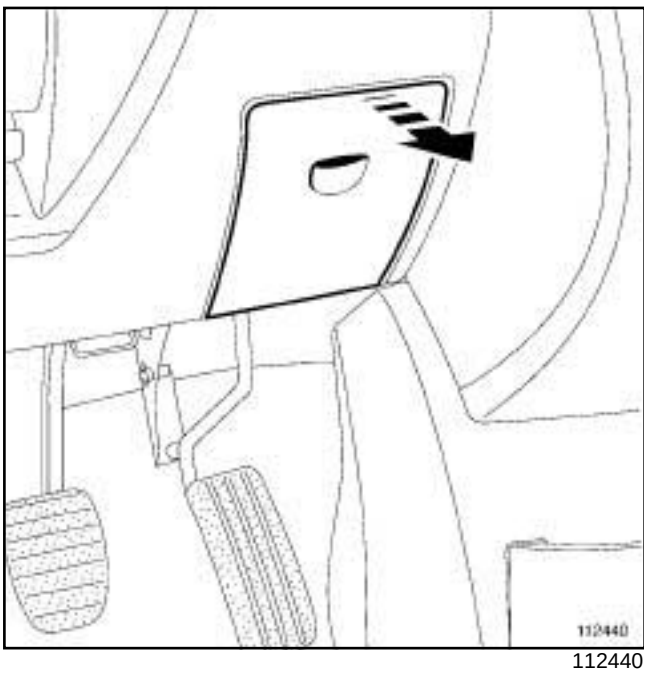
❏ Connect the connector.

❏ Clip the boot light in place.

No.	Description
(1)	Passenger compartment fuse and relay box
(2)	Consumer cut-out fuse
(3)	Additional relay/fuse box
(4)	Battery protection fuses
(5)	Protection and switching unit
(6)	Power supply fuse board
(7)	Optional relay unit

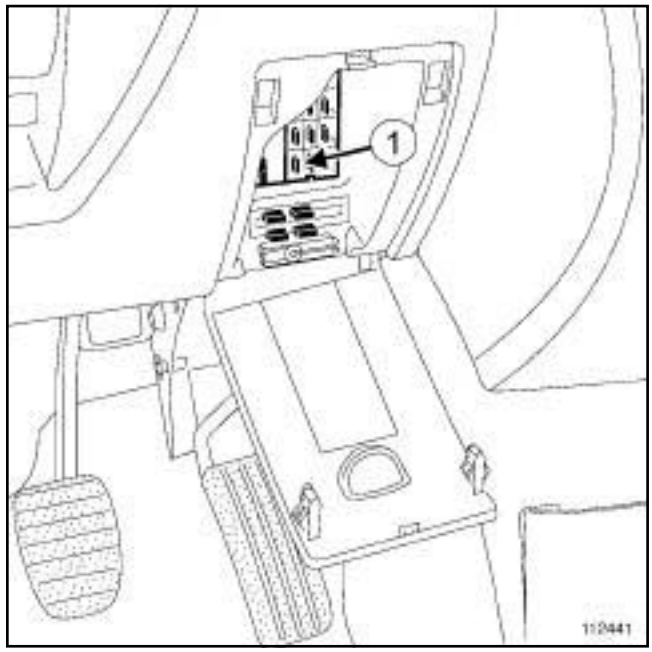
I - PASSENGER COMPARTMENT FUSE AND RELAY BOX

LEFT-HAND DRIVE



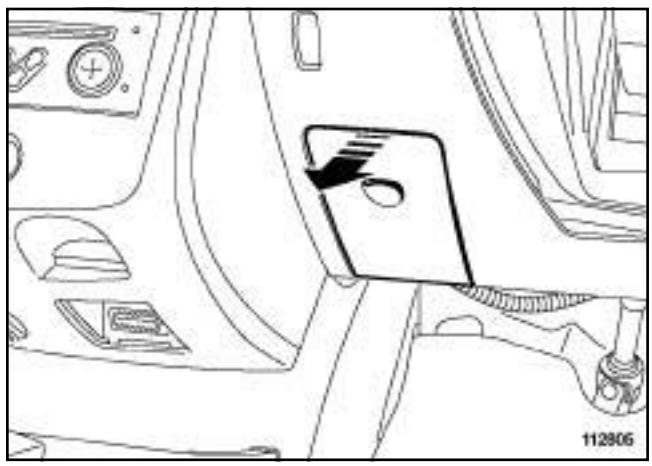
112440

Open the access flap to gain access to the unit.



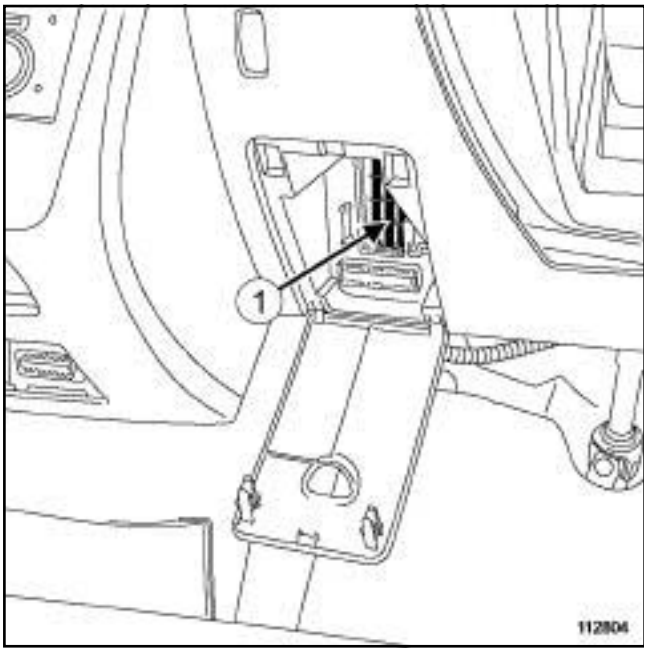
112441

RIGHT-HAND DRIVE



112805

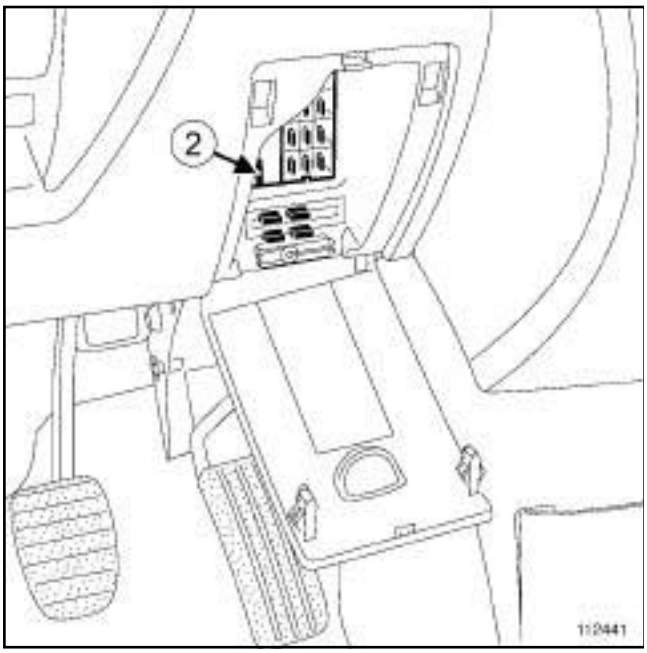
Open the access flap to gain access to the unit.



112804

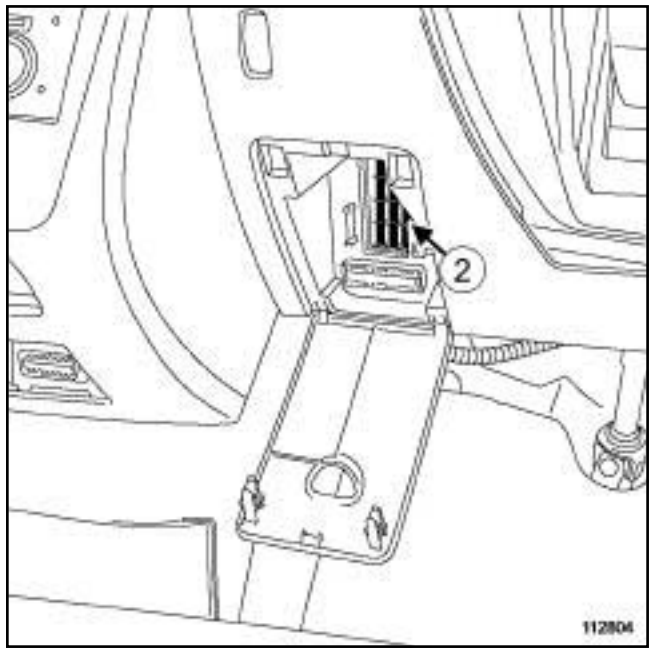
II - CONSUMER CUT-OUT FUSE

LEFT-HAND DRIVE



112441

RIGHT-HAND DRIVE

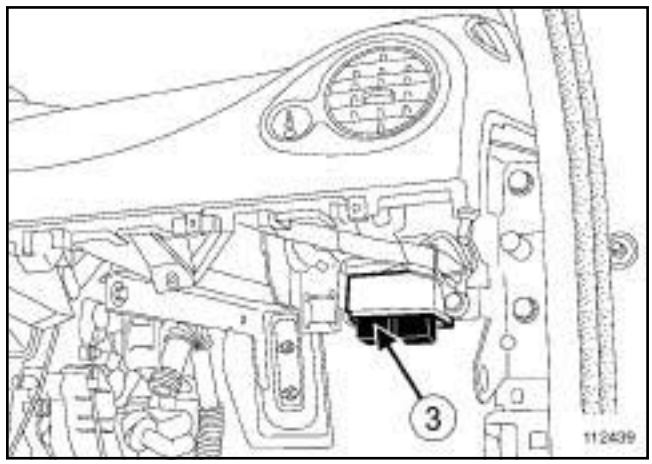


112804

III - ADDITIONAL FUSE AND RELAY BOX

LEFT-HAND DRIVE

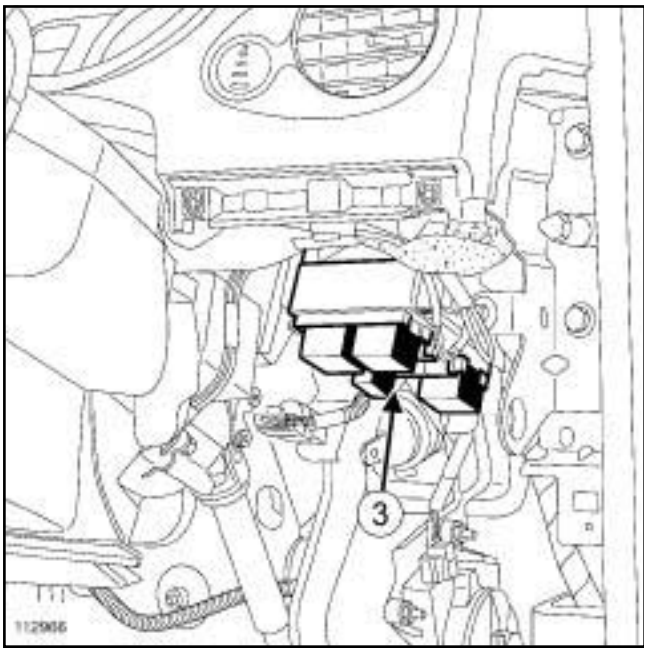
Remove the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment) to access the box.



112439

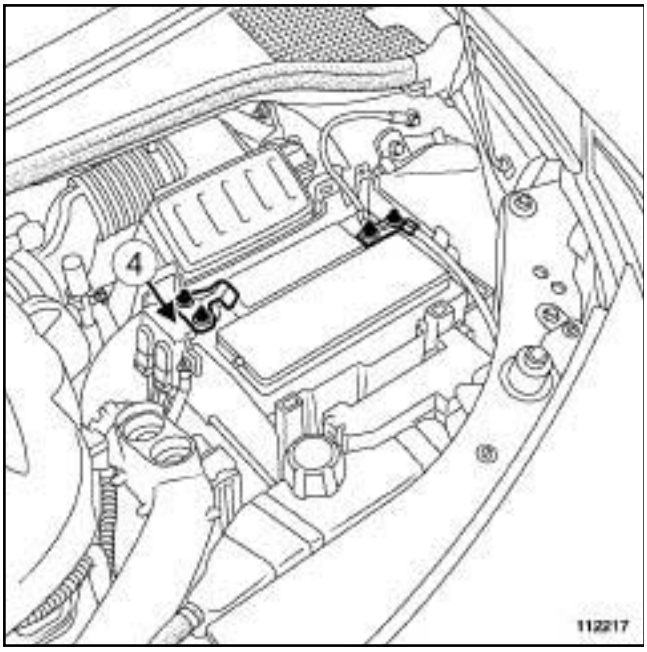
RIGHT-HAND DRIVE

Remove the lower dashboard trim (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment)to access the box.



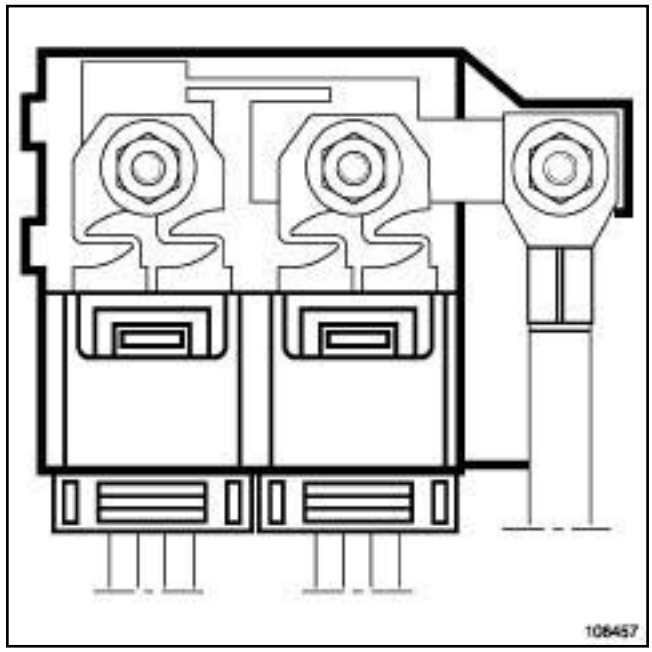
112966

IV - BATTERY PROTECTION FUSES



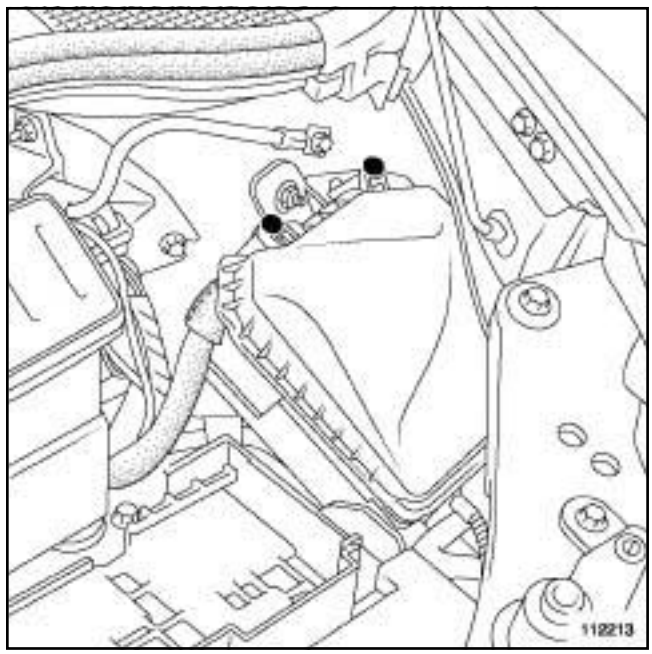
112217

This box is located on the positive battery terminal.



108457

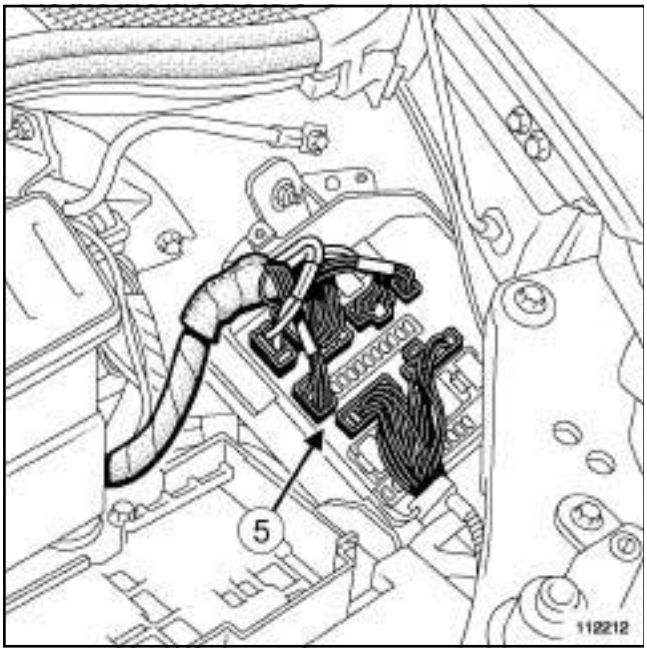
V - PROTECTION AND SWITCHING UNIT



112213

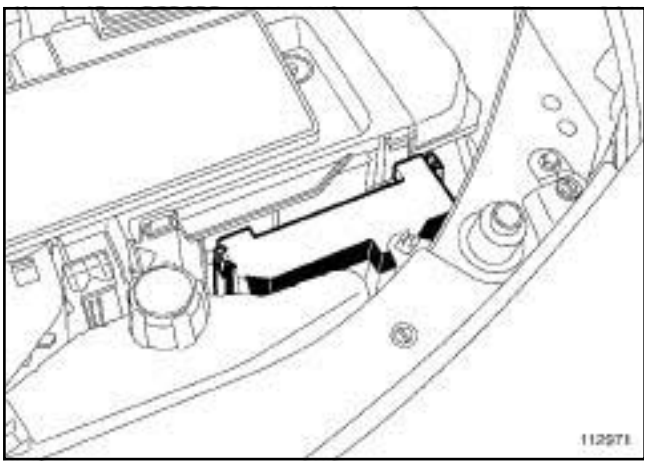
This box is located in the engine compartment, behind the left headlamp.

Remove the cover to gain access to the unit.



112212

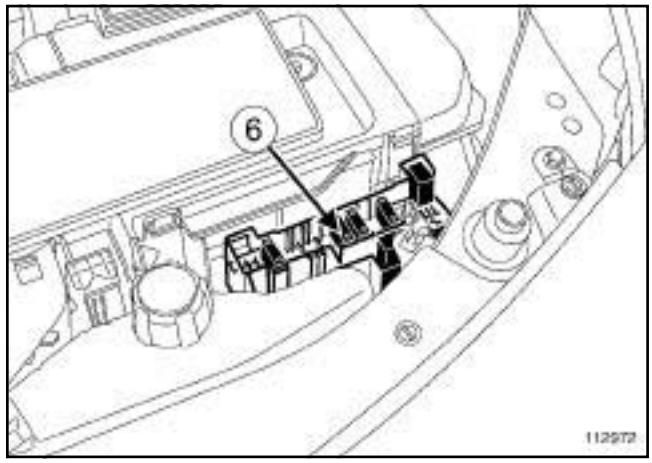
VI - POWER SUPPLY FUSE BOARD



112971

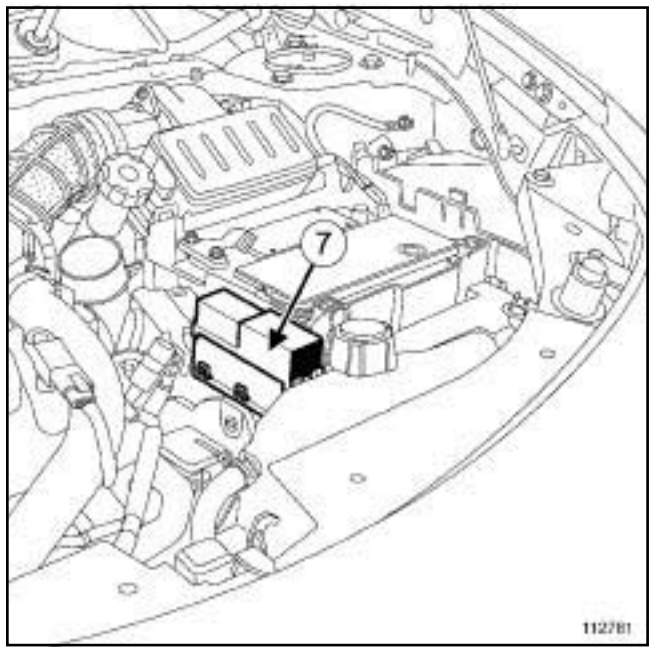
This box is located on the front panel of the battery tray.

Remove the cover to gain access to the unit.



112972

VII - OPTIONAL RELAY UNIT



112781

This box is located on the engine-side panel of the battery tray.

Remove the cover to gain access to the unit.

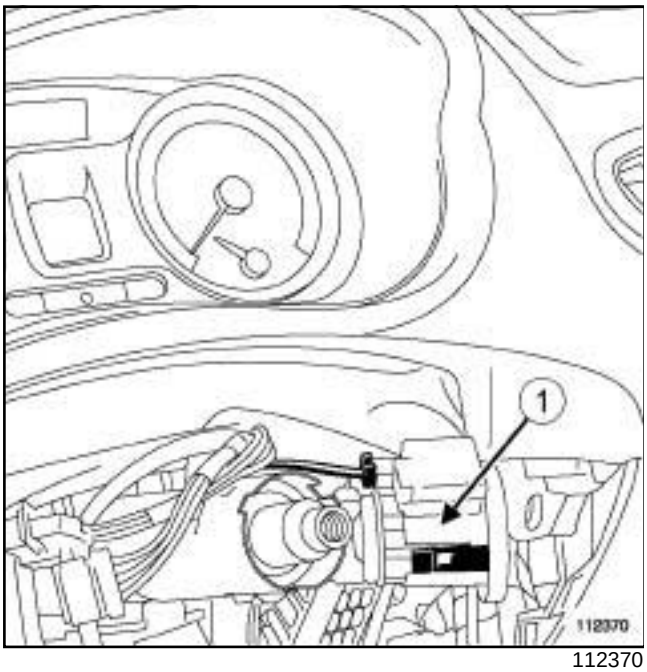
I - LIST OF COMPONENTS

Number	Description
(1)	Transponder ring
(2)	Ignition switch
(3) or *(10)*	UCH
(4)	Key
(5)	Front starting aerial
(6)	Central starting aerial
(7)	Rear starting aerial
(8)	Start button
(9)	Card reader
(11)	Electric steering column lock
(12)	Card

II - LOCATION OF COMPONENTS

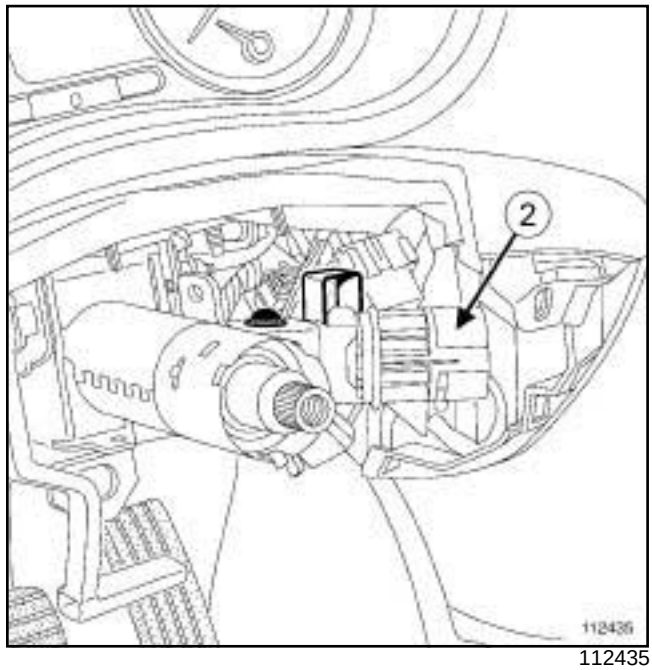
VEHICLE WITH KEY

1 - Antenna/Transponder ring



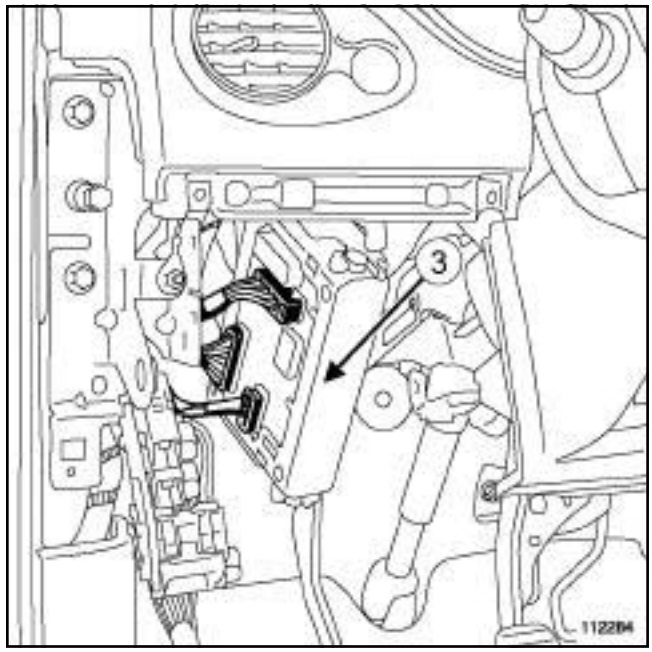
112370

2 - Ignition switch



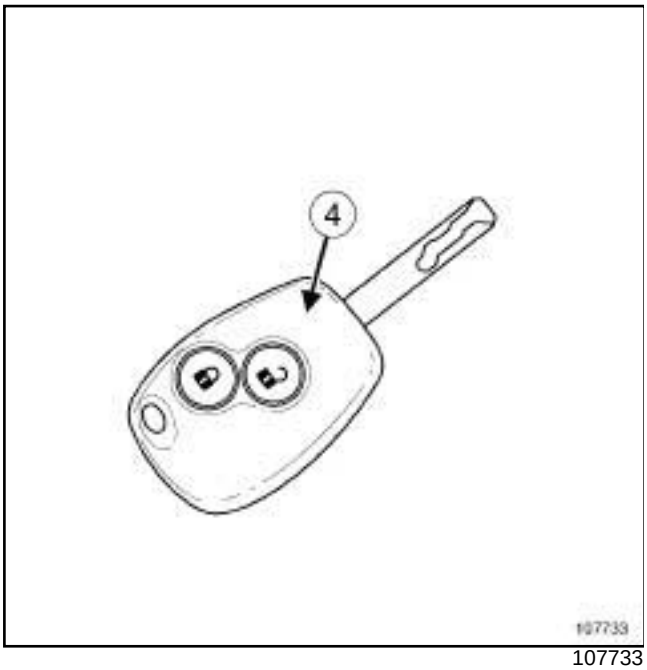
112435

3 - UCH



112284

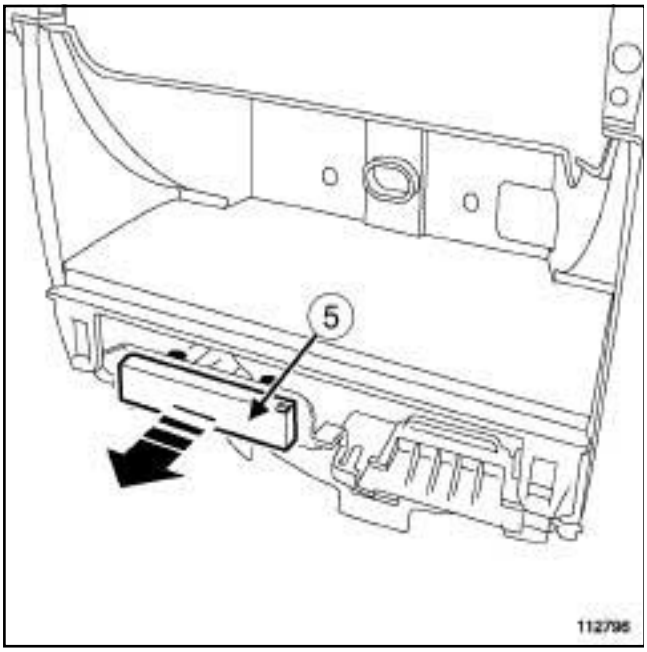
4 - Key



107733

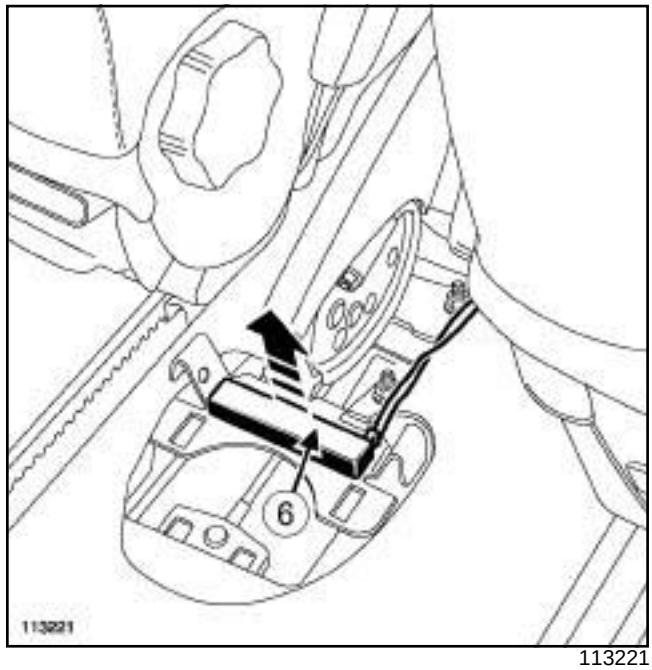
VEHICLE WITH CARD

5 - Front starting aerial



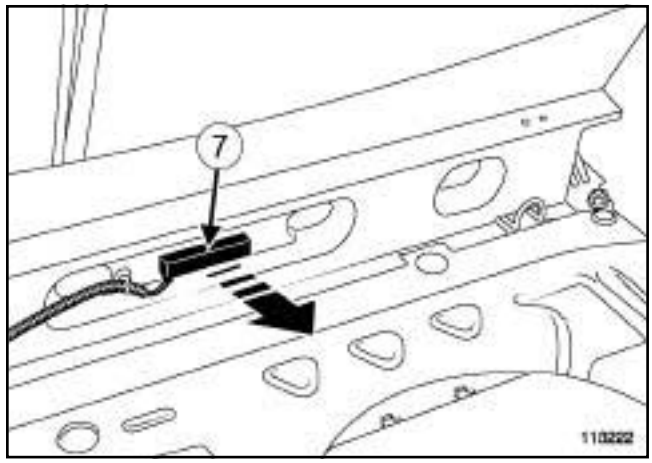
112796

6 - Central starting aerial



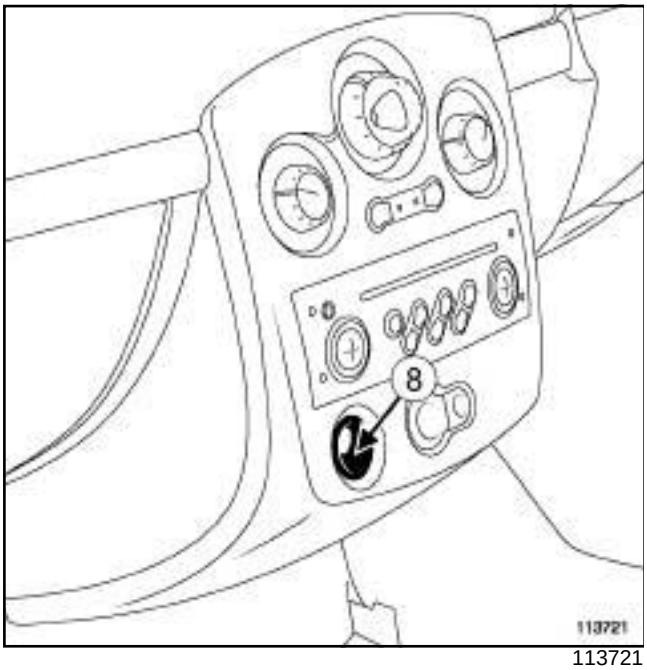
113221

7 - Rear starting aerial



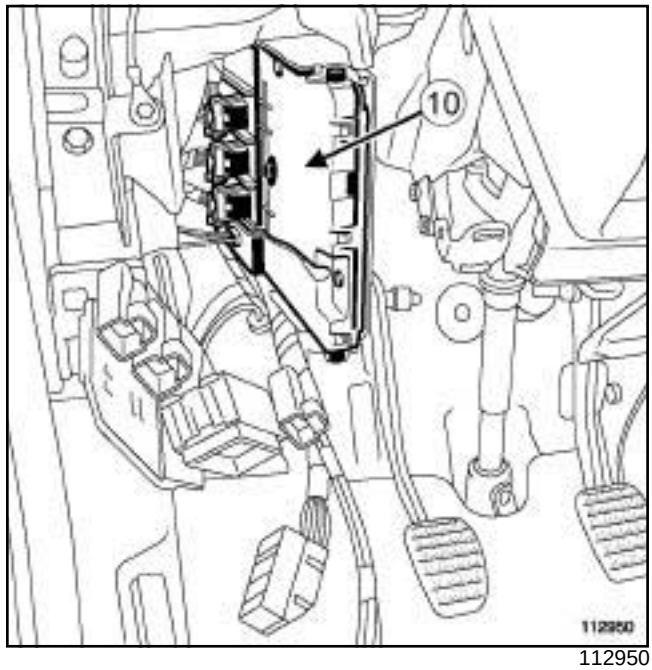
113222

8 - Start button



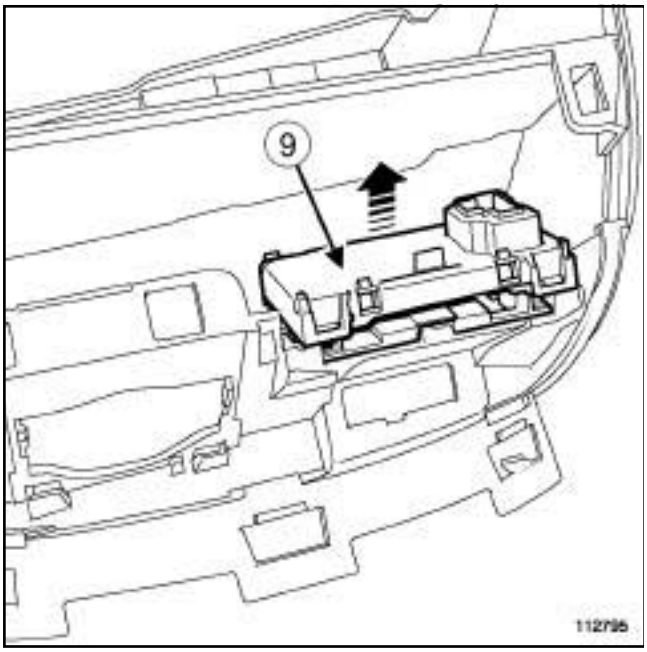
113721

10 - UCH



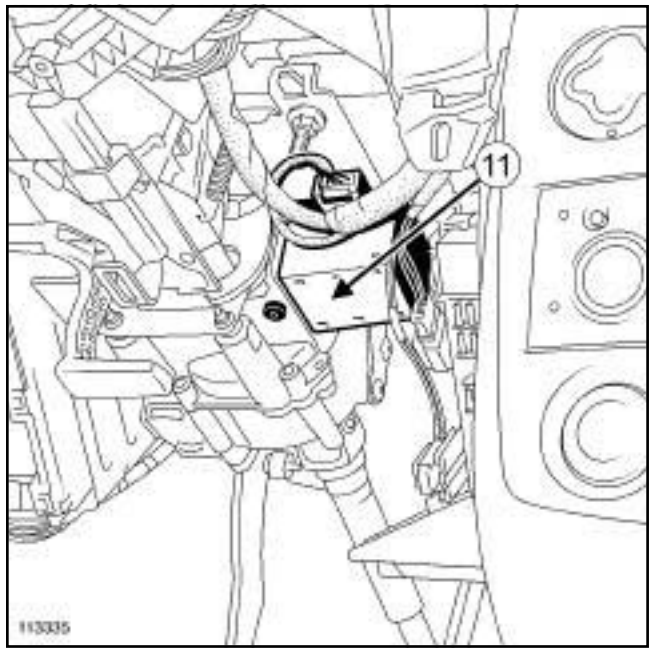
112950

9 - Card reader



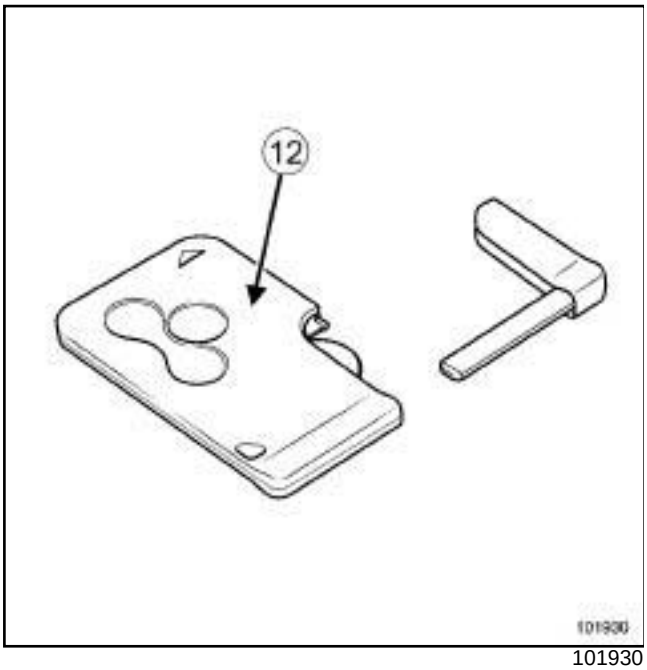
112795

11 - Electric steering column lock



113335

12 - Card



101930

VEHICLE WITH CARD

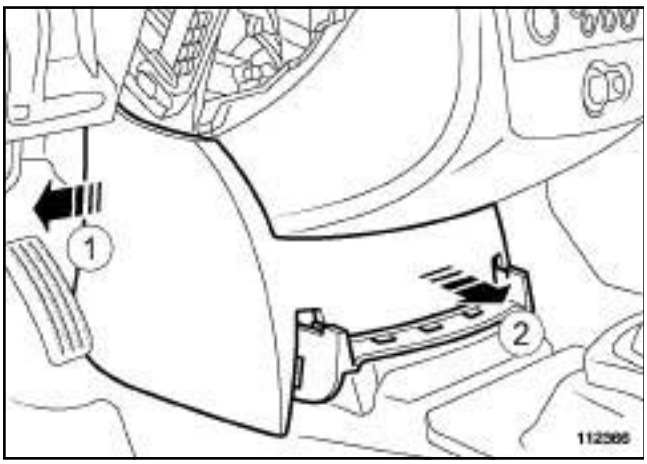
Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

1 - Front starting aerial

❑ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).



112366

❑ Unclip the trim at (**1**) and (**2**) .

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

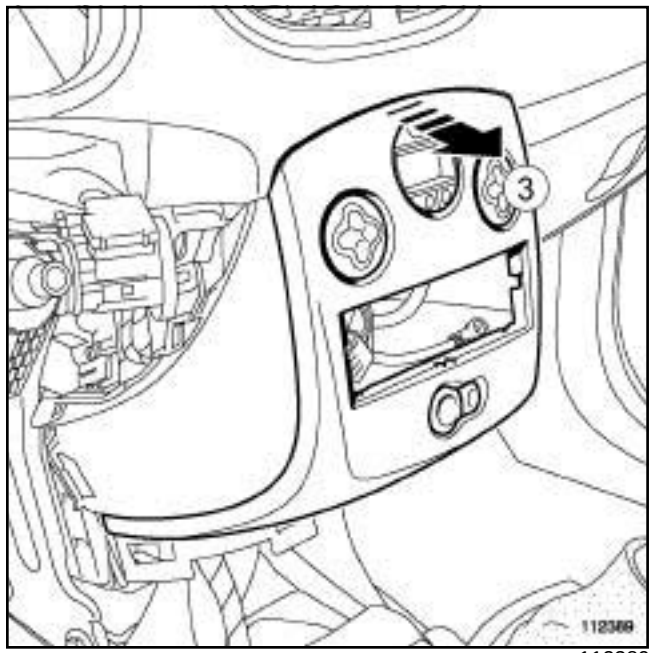
❑ Remove the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❑ Remove the radio navigation system (see **83C**, **Onboard telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

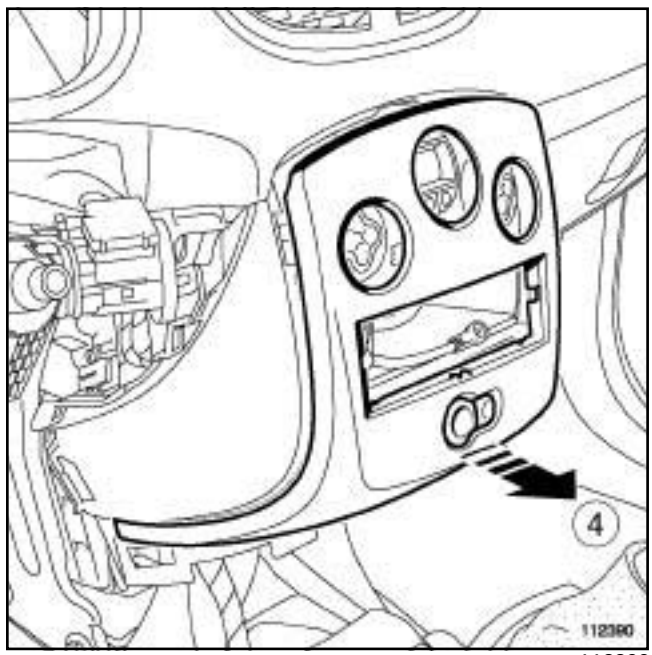
WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❑ Unclip the glovebox using the **(Car. 1363)**.



112389

❑ Unclip the centre front panel at (**3**) .



112390

❑ Unclip:

- the centre front panel at (**4**) ,
- the connectors.

VEHICLE WITH CARD

2 - Central starting aerial

❑ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

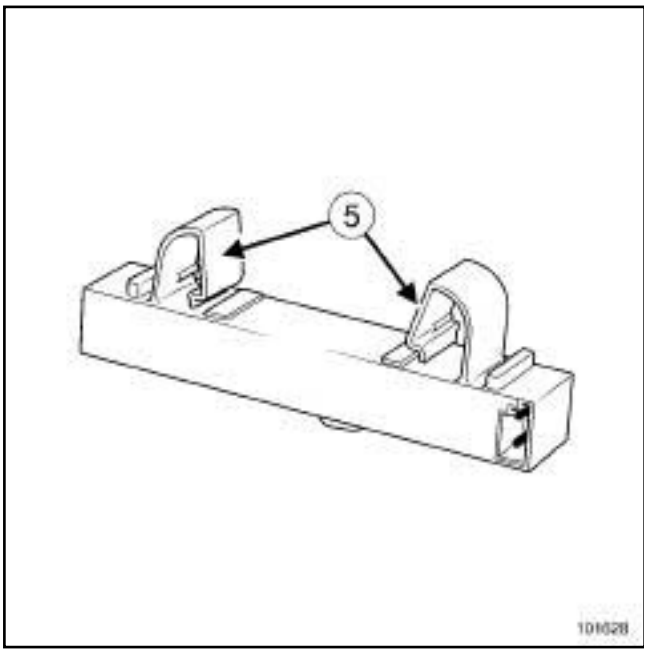
3 - Rear starting aerial

❑ Remove the luggage compartment carpet.

❑ Lift up the luggage retainer cross member trim.

II - REMOVAL OPERATION FOR THE PART CONCERNED

1 - Front starting aerial

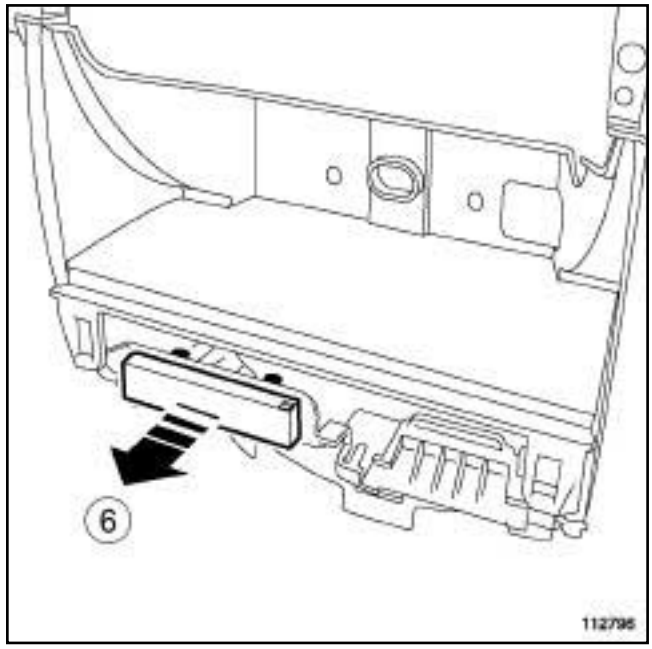


101628

❑

WARNING
The retaining clips are fragile; handle with care.

Press the retaining clips at (**5**) .

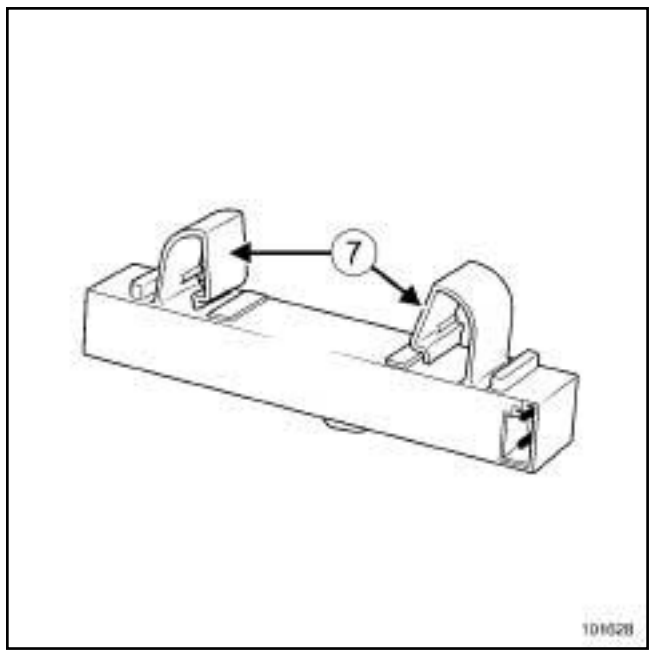


112796

❑ Unclip:

- the starting aerial (**6**) ,
- the connector.

2 - Central starting aerial



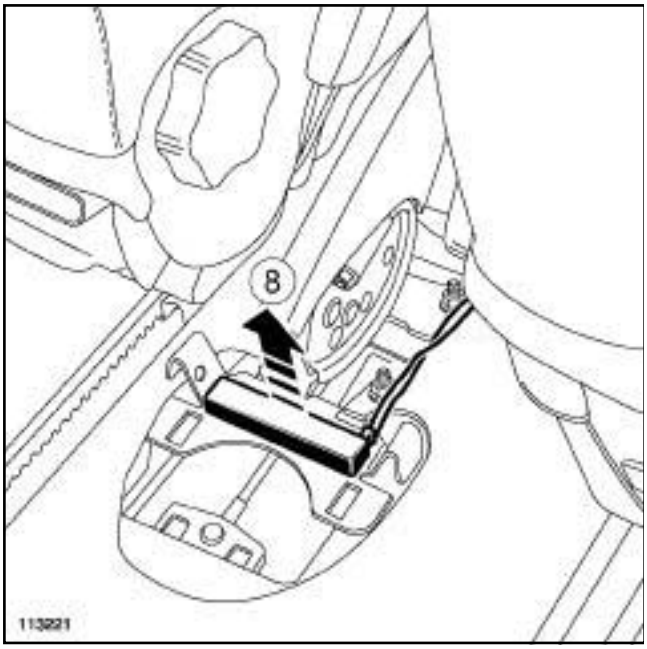
101628

❑

WARNING
The retaining clips are fragile; handle with care.

Press the retaining clips at (**7**) .

VEHICLE WITH CARD

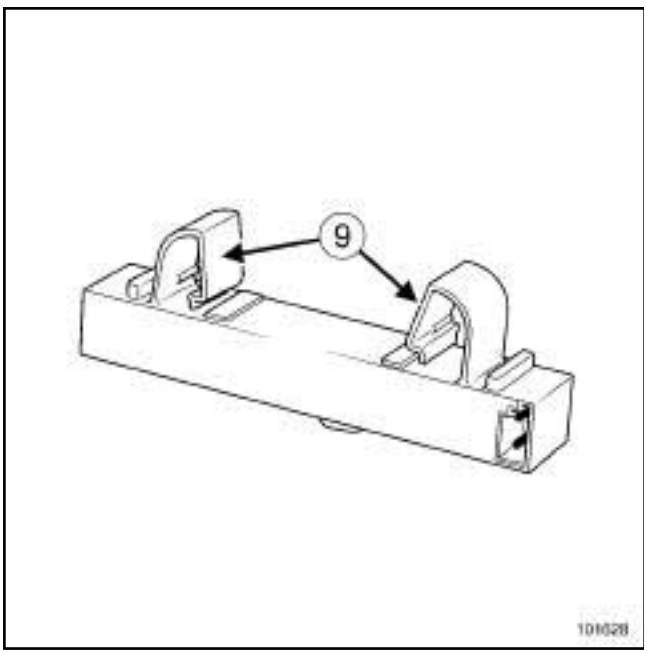


113221

❑ Unclip:

- the starting aerial (**8**) ,
- the connector.

3 - Rear starting aerial

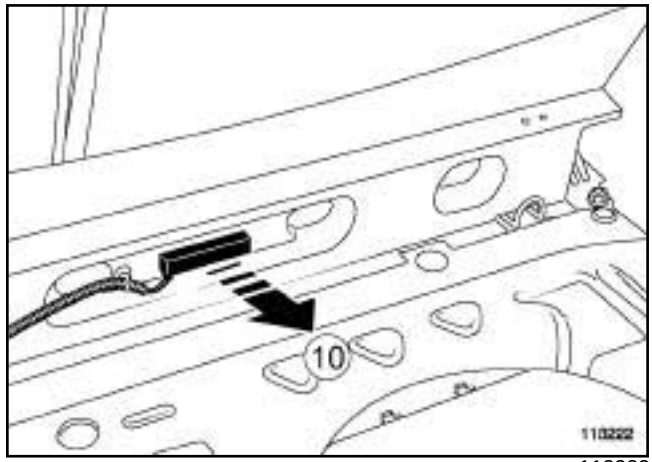


101628

❑

WARNING
The retaining clips are fragile; handle with care.

Press the retaining clips at (**9**) .



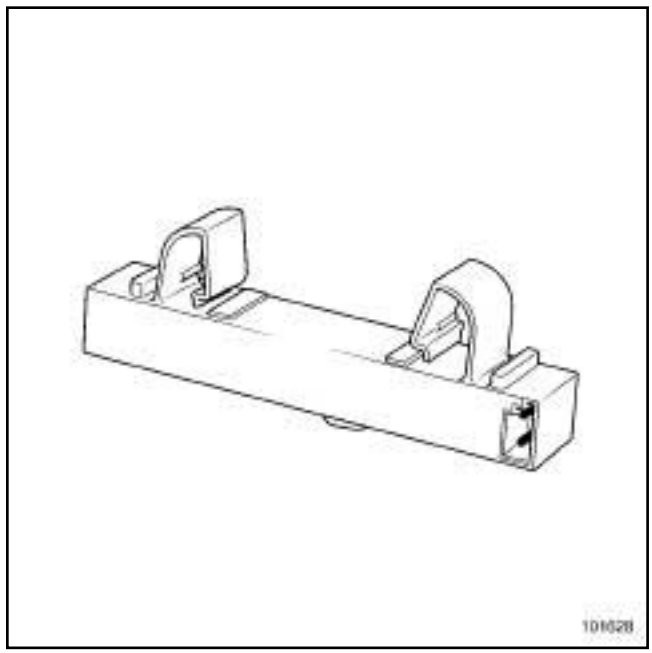
113222

❑ Unclip:

- the starting aerial (**10**) ,
- the connector.

REFITTING

I - REFITTING OPERATION FOR THE PART CONCERNED



101628

❑ Clip on:

- the aerial connector,
- the aerial onto its mounting.

VEHICLE WITH CARD

II - FINAL OPERATION

1 - Front starting aerial

❑ Connect the centre front panel connectors.

❑ Clip in the centre front panel beginning with the lower section.

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

❑ Refit the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❑ Refit the radio navigation system (see **83C**, **Onboard telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❑ Clip the glovebox in position.

❑ Clip the trim under the centre front panel.

❑ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

2 - Central starting aerial

❑ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

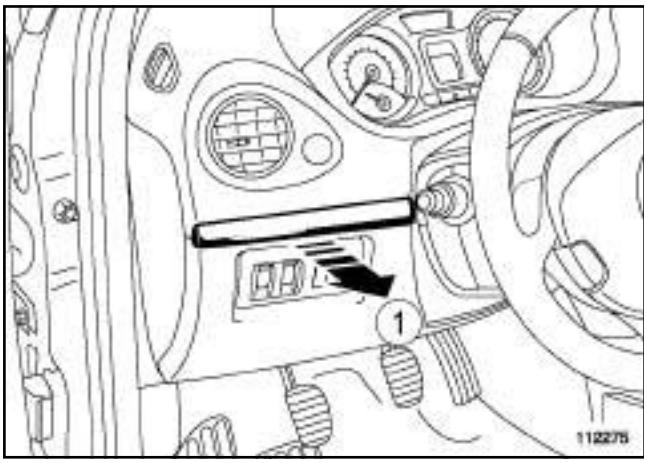
3 - Rear starting aerial

❑ Refit the luggage compartment carpet.

REMOVAL

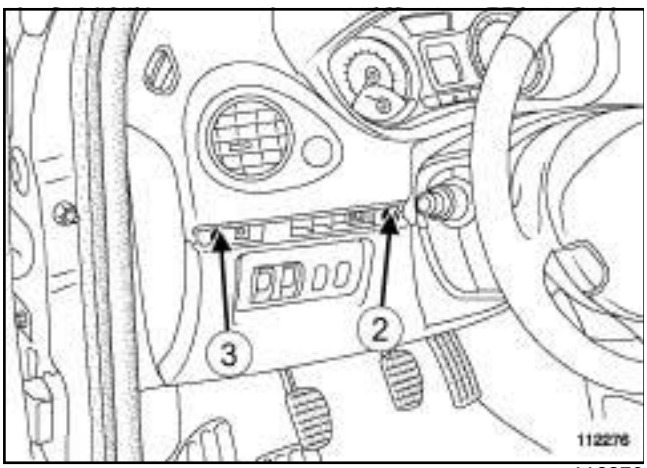
I - REMOVAL PREPARATION OPERATION

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .



112275

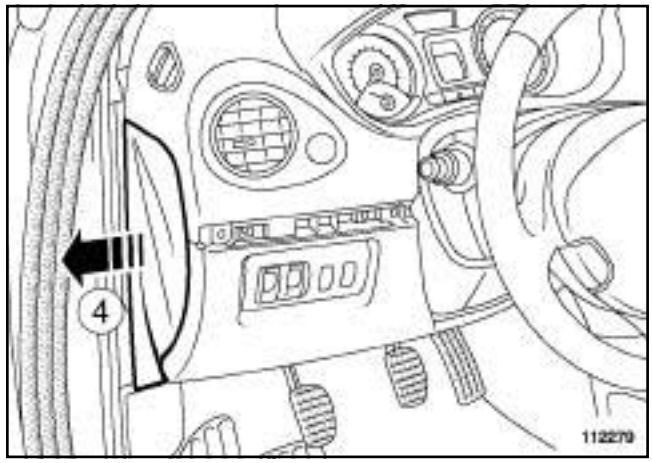
❏ Unclip trim (**1**) .



112276

❏ Remove:

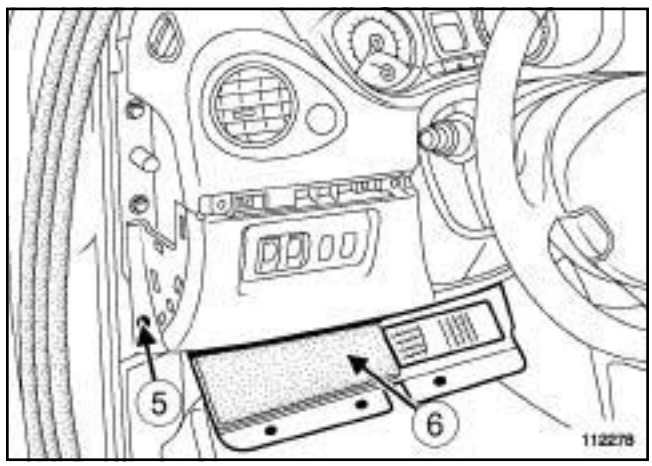
- the plastic rivet (**2**) ,
- bolt (**3**) .



112279

❏ Remove the door seal.

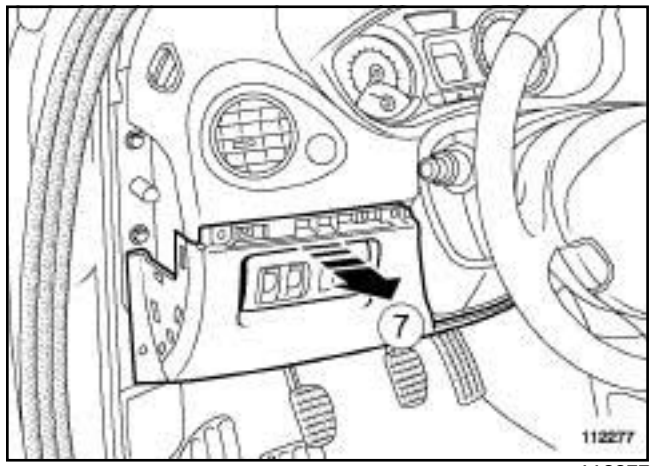
❏ Unclip the dashboard side face (**4**) .



112278

❏ Remove:

- the bolt (**5**) ,
- the dashboard lower trim (**6**) .



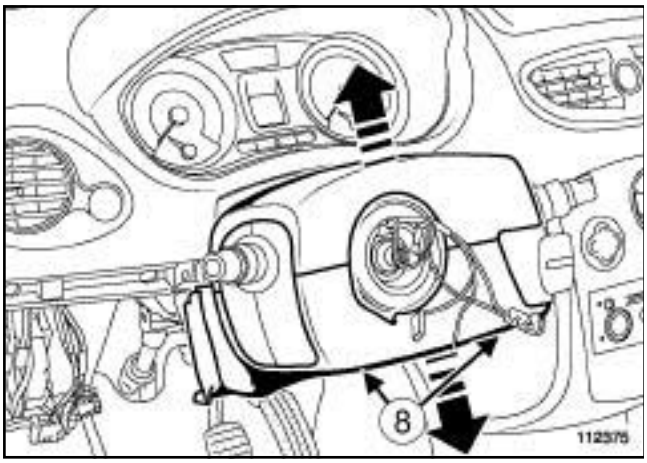
112277

❏ Remove the lower cover (**7**) .

❏ Disconnect the connectors.

❏ Remove:

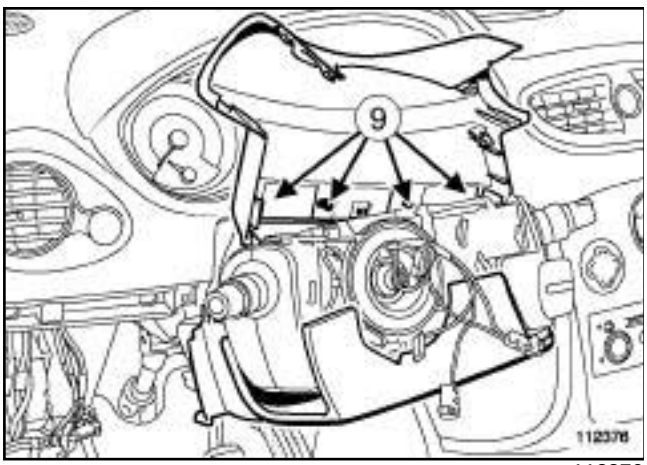
- the driver's side front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36B, Power-assisted steering).



112375

❏ Remove the bolts ***(8)*** under the lower half cowling.

❏ Unclip the lower and upper half cowling.



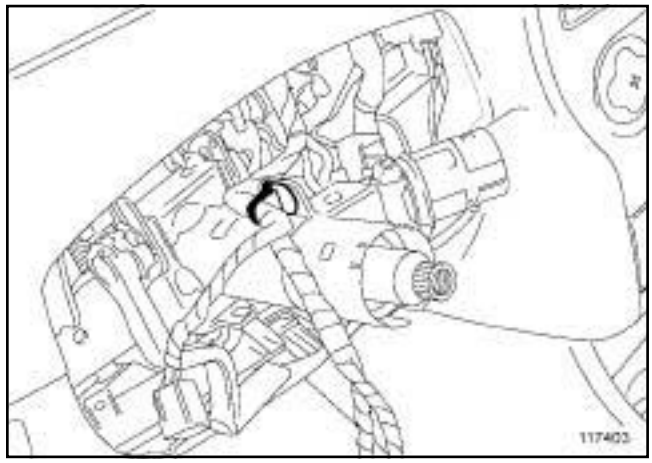
112376

❏ Unclip the upper half cowling from the dashboard gaiter ***(9)*** .

❏ Pull the lower half cowling out from the steering column adjustment handle.

❏ Remove:

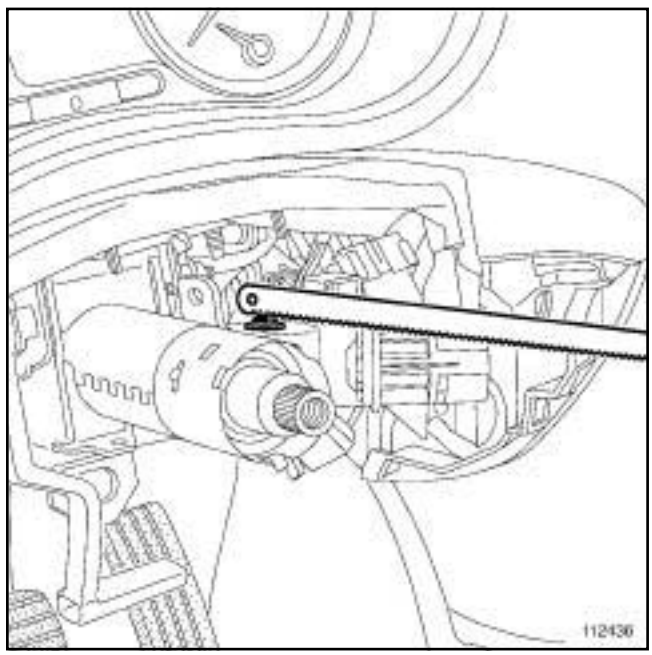
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the antenna/transponder ring (see **82A**, **Engine immobiliser**, **Transponder ring: Removal - Refitting**, page **82A-13**) .



117403

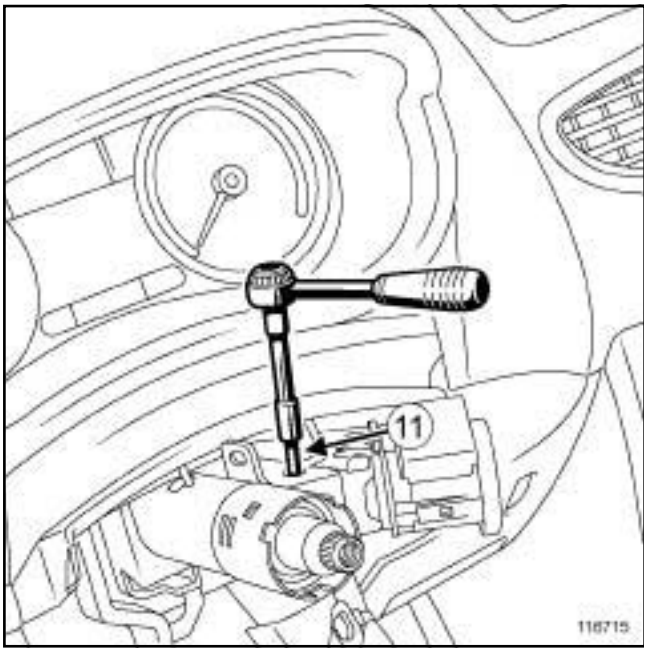
❏ Unclip the wiring harness clip.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112436

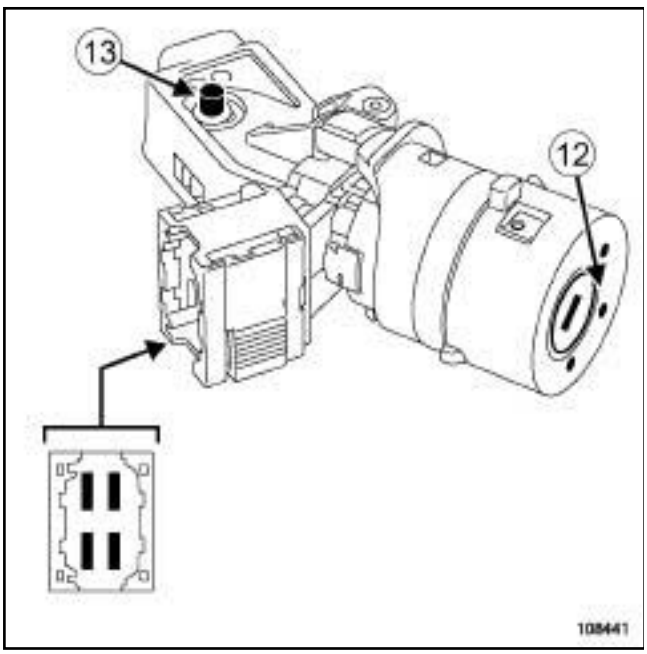
❏ Make a saw mark on the shear bolt.



116715

❏ Remove the bolt ***(11)*** .

❏ Disconnect the connector.



108441

❏ Position the ignition key between the first and second position (+Accessories and +APC) (**12**) .

❏ Press on the retaining lug ***(13)*** .

❏ Remove the ignition switch.

REFITTING

I - REFITTING PREPARATIONS OPERATION

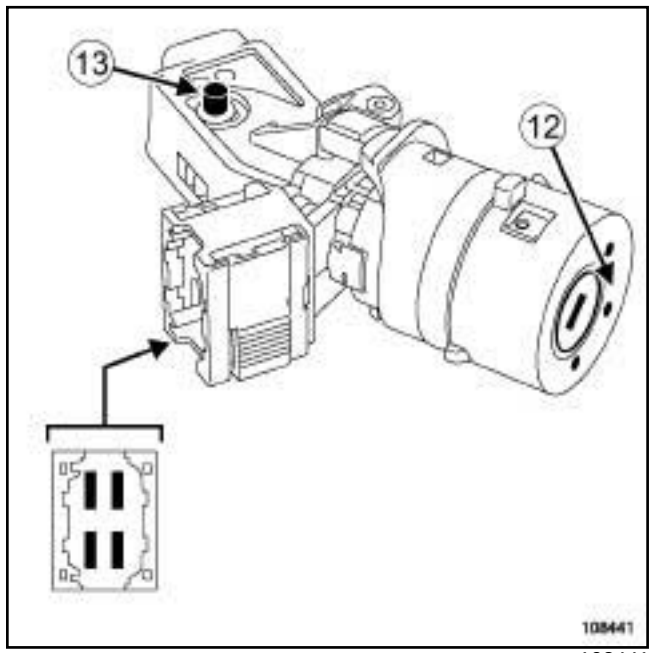
❏

Note:

To protect against tampering, always secure the ignition switch with a shear bolt.

Be sure to recover the sheared-off part of the bolt after it has been tightened.

II - REFITTING OPERATION FOR PART CONCERNED

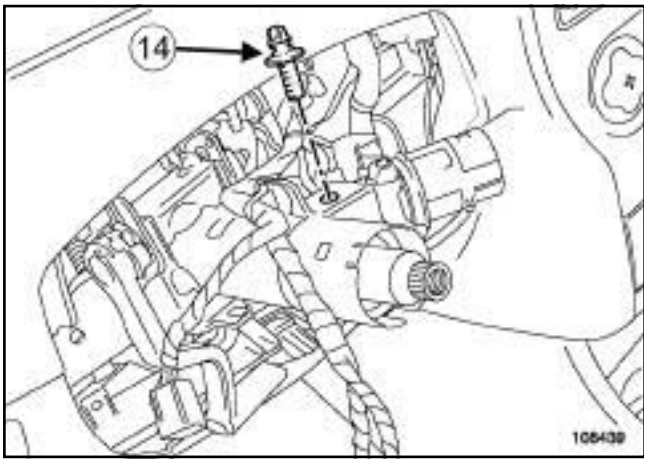


108441

❏ Position the ignition key between the first and second position (+Accessories and +APC) (**12**) .

❏ Press on the retaining lug ***(13)*** .

❏ Fit the ignition switch.



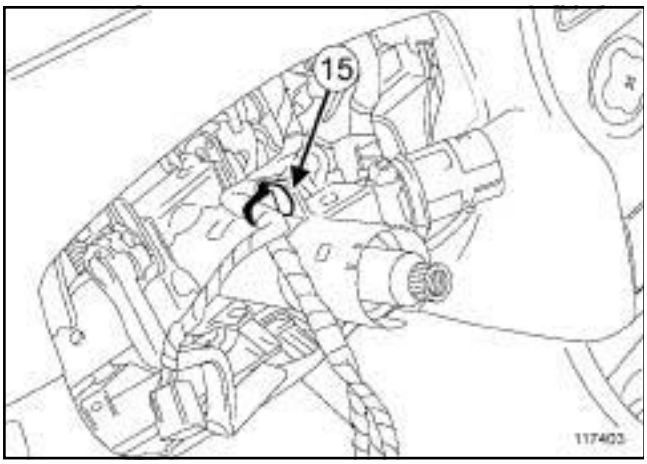
108439

❏ Tighten the shear bolt (**14**) until the bolt head shears off.

❏ Connect the starter switch connector.

❏ Lock the starter switch connector.

III - FINAL OPERATION.



117403

❏ Clip on the wiring harness clip (**15**) .

❏ Refit:

- the antenna/transponder ring (see **82A**, **Engine immobiliser**, **Transponder ring: Removal - Refitting**, page **82A-13**) ,
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the lower half-shell.

❏ Clip on:

- the dashboard gaiter on the upper half cowling ***(9)*** ,
- the upper half cowling to the lower half cowling.

❏ Refit:

- the bolts ***(8)*** under the lower half cowling,
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36B, Power-assisted steering),
- the driver's front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) .

❏ Connect the connectors on the lower cover ***(7)*** .

❏ Refit:

- the lower cover ***(7)*** ,
- the dashboard lower trim ***(6)*** .

❏ Tighten:

- the dashboard lower trim bolt ***(5)***
- the lower cover bolt ***(3)*** ,

❏ Clip on:

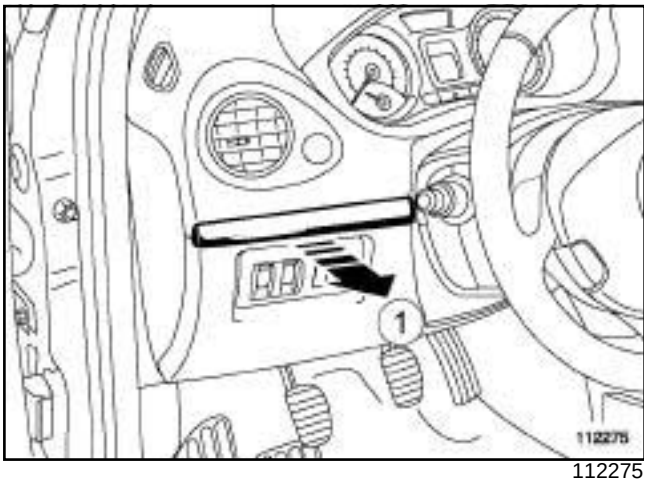
- the plastic rivet,
- the dashboard side panel,
- the trim ***(1)*** ,
- the door seal,

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

VEHICLE WITH KEY

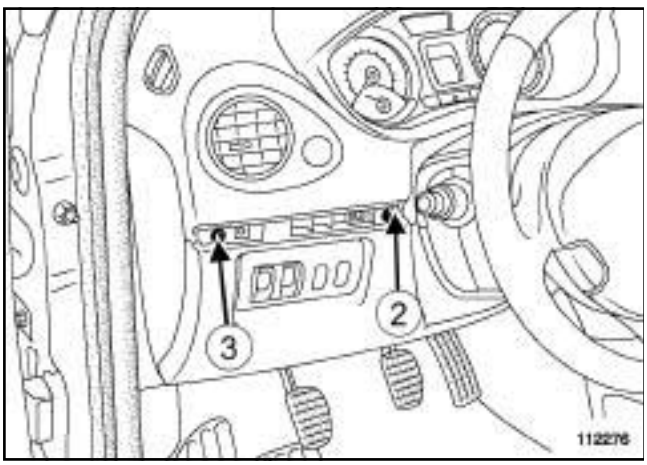
REMOVAL

I - REMOVAL PREPARATION OPERATION



112275

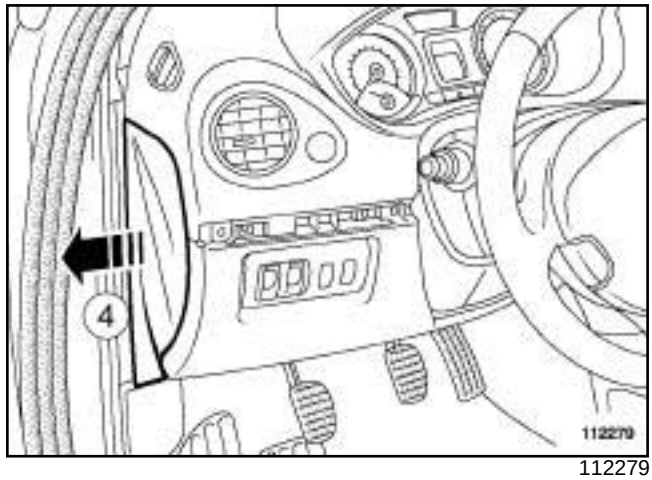
❏ Unclip trim (**1**) .



112276

❏ Remove:

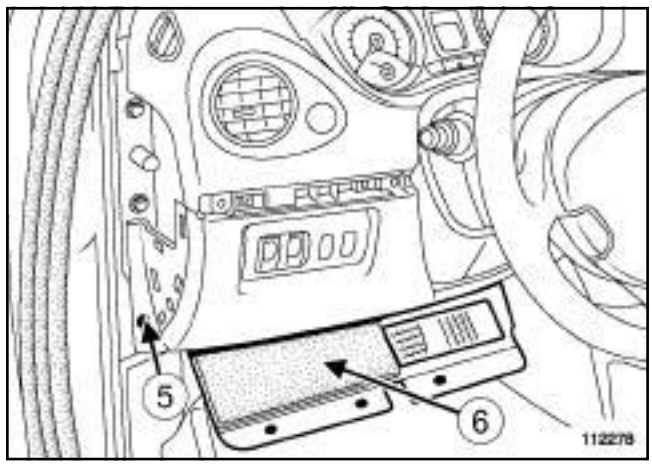
- the plasti-rivet (**2**) ,
- the bolt (**3**) .



112279

❏ Remove the door seal.

❏ Unclip the dashboard side face (**4**) .

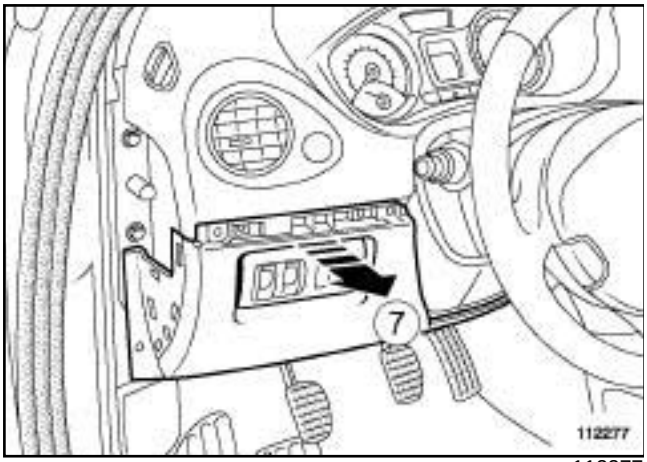


112278

❏ Remove:

- the bolt (**5**) ,
- the dashboard lower trim (**6**) .

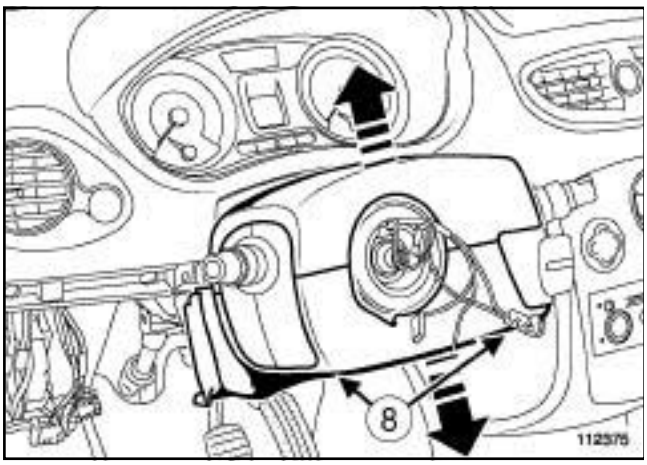
VEHICLE WITH KEY



112277

❏ Remove the lower cover (**7**) .

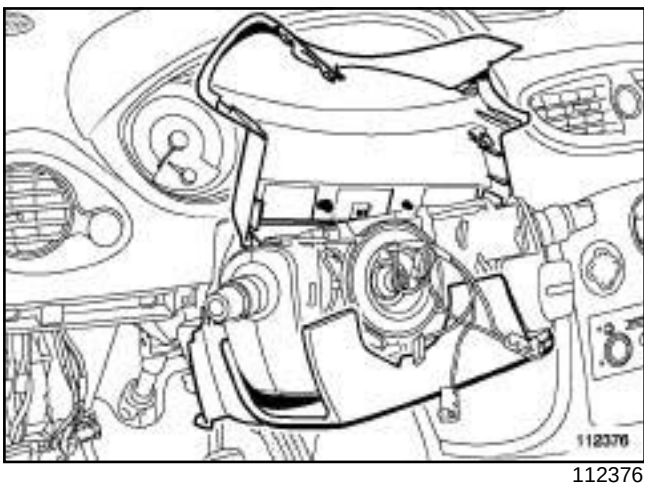
❏ Disconnect the connectors.



112375

❏ Remove the bolts (**8**) under the lower half cowling.

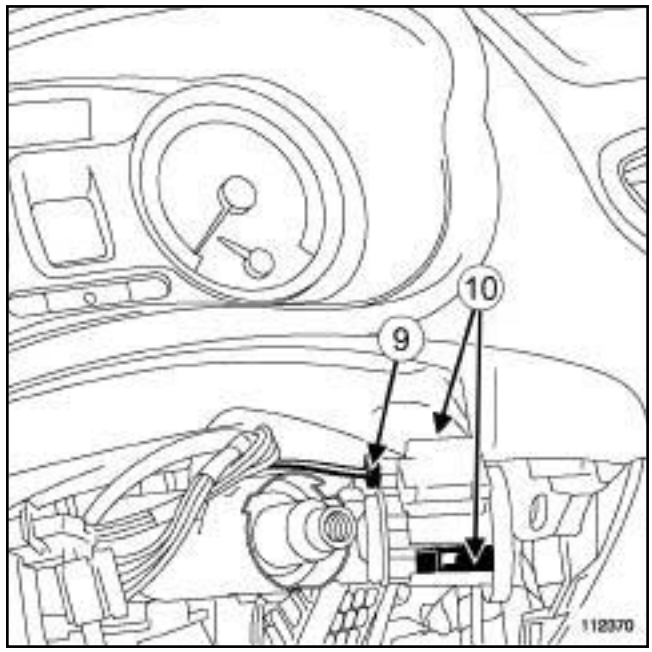
❏ Unclip the lower and upper half cowling.



112376

❏ Pull the lower half cowling out from the steering column adjustment handle.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112370

❏ Unclip the two antenna/transponder ring tabs (**10**) .

❏ Remove the antenna/transponder ring.

❏ Disconnect the connector (**9**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip on the antenna/transponder ring.

❏ Connect the antenna/transponder ring connector.

II - FINAL OPERATION

❏ Refit the lower half-shell.

❏ Clip the upper half cowling onto the lower half cowling.

❏ Tighten the bolts ***(8)*** under the lower half cowling.

❏ Connect the connectors on the lower cover ***(7)*** .

❏ Refit the lower cover ***(7)*** .

❏ Tighten the bolts ***(3)*** , ***(5)*** .

❏ Clip on:

- the plastic rivet,
- the dashboard side panel,
- the trim ***(1)*** ,
- the door seal,

VEHICLE WITH KEY

- the dashboard lower trim ***(6)*** .

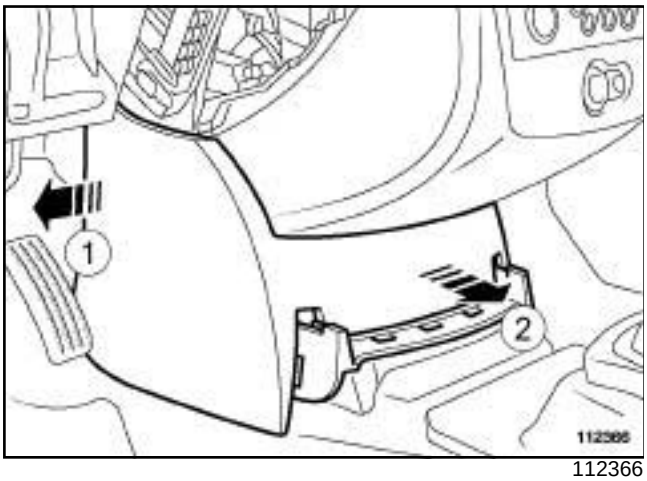
VEHICLE WITH CARD

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).



112366

❑ Unclip the trim at (**1**) and (**2**) .

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

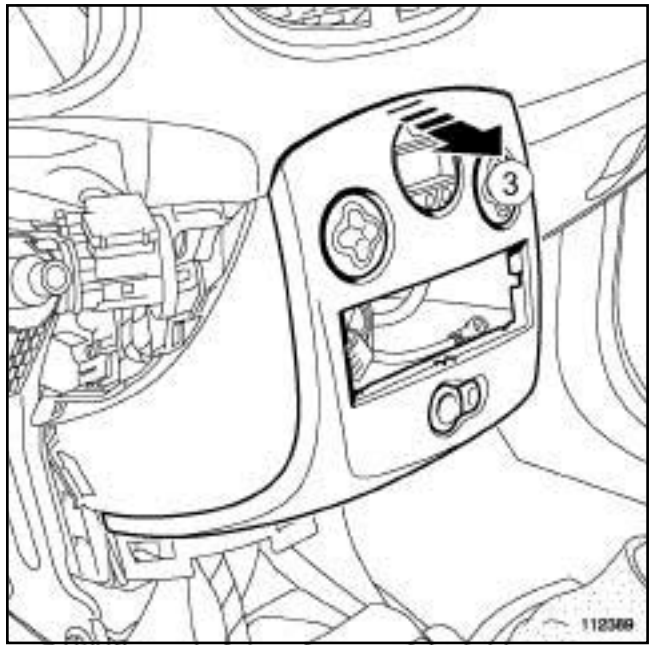
❑ Remove the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❑ Remove the radio navigation system (see **83C**, **Onboard telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

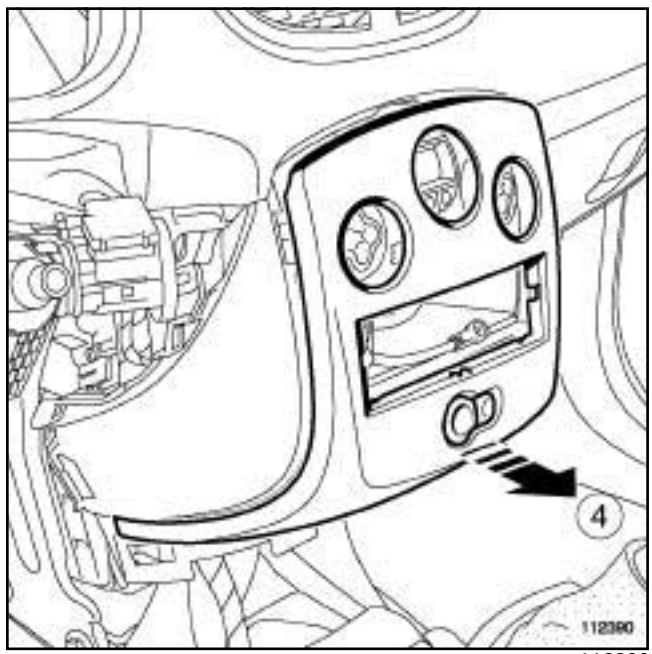
WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❑ Unclip the glovebox using the **(Car. 1363)**.



112389

❑ Unclip the centre front panel at (**3**) .



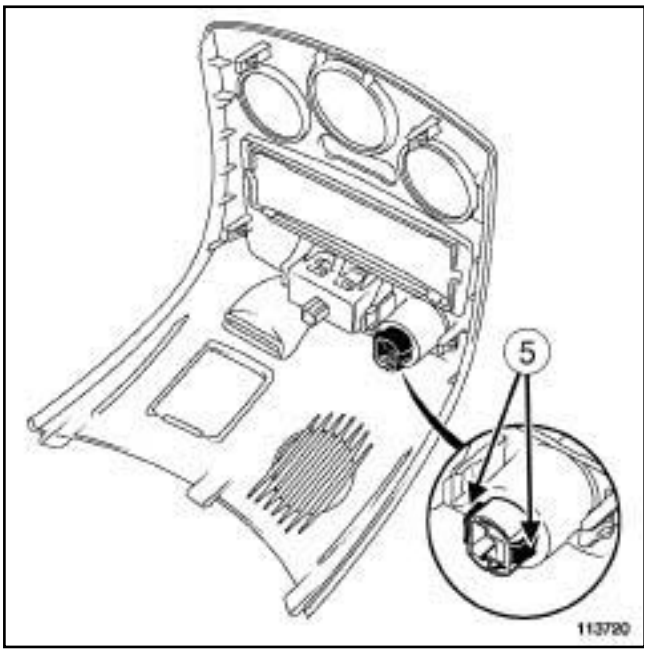
112390

❑ Unclip the centre front panel at (**4**) .

❑ Disconnect the connectors.

VEHICLE WITH CARD

II - OPERATION FOR REMOVAL OF PART CONCERNED



113720

❑ Unclip the start button (**5**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Clip the start button onto the centre front cover.

II - FINAL OPERATION.

❑ Connect the centre front panel connectors.

❑ Clip in the centre front panel beginning with the lower section.

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

❑ Refit the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❑ Refit the radio navigation system (see **83C**, **On-board telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❑ Clip the glovebox in position.

❑ Clip the trim under the centre front panel.

❑ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

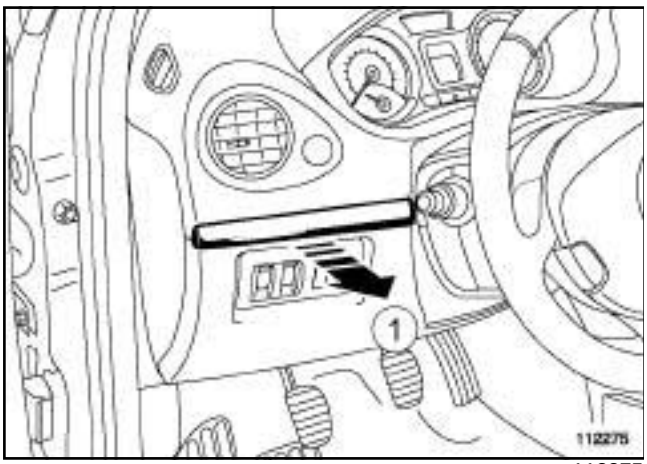
Equipment required
Diagnostic tool

Tightening torques ▽	
steering column lock mounting bolt	**8 Nm**

REMOVAL

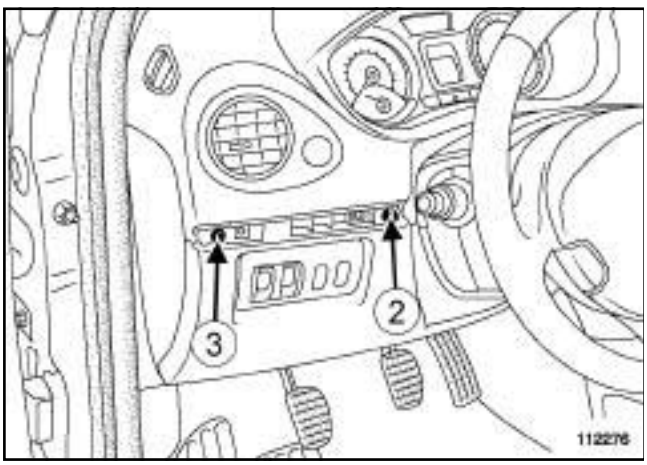
I - REMOVAL PREPARATION OPERATION

❏ Lock the airbag computer using the **Diagnostic tool** to unlock the steering column lock (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).



112275

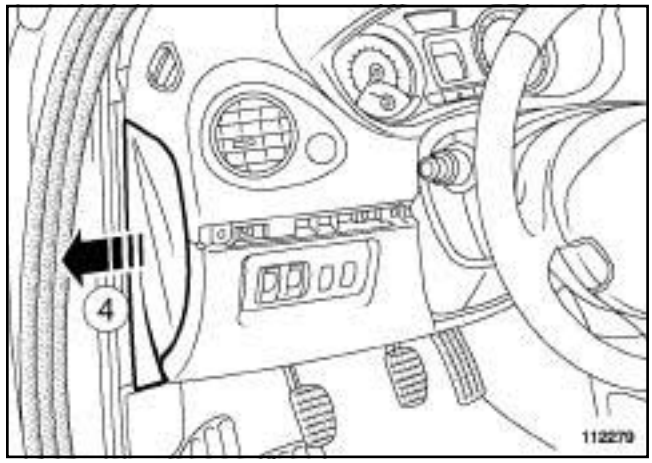
❏ Unclip trim (**1**) .



112276

❏ Unclip:

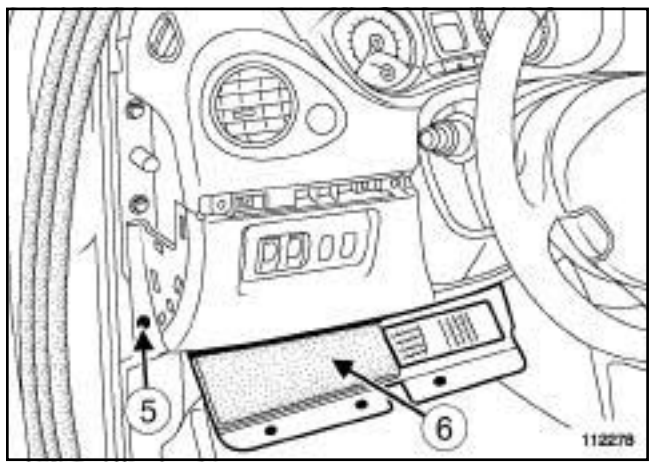
- the plasti-rivet (**2**) ,
- the bolt (**3**) .



112279

❏ Remove the door seal.

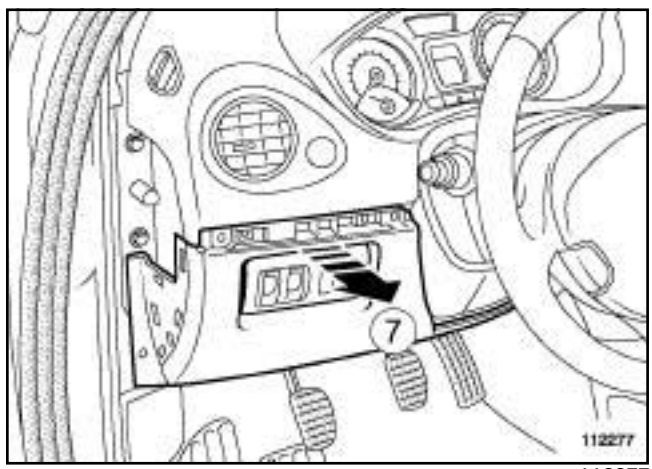
❏ Remove the dashboard side face (**4**) .



112278

❏ Remove:

- the bolt (**5**) ,
- the lower cover trim (**6**) .

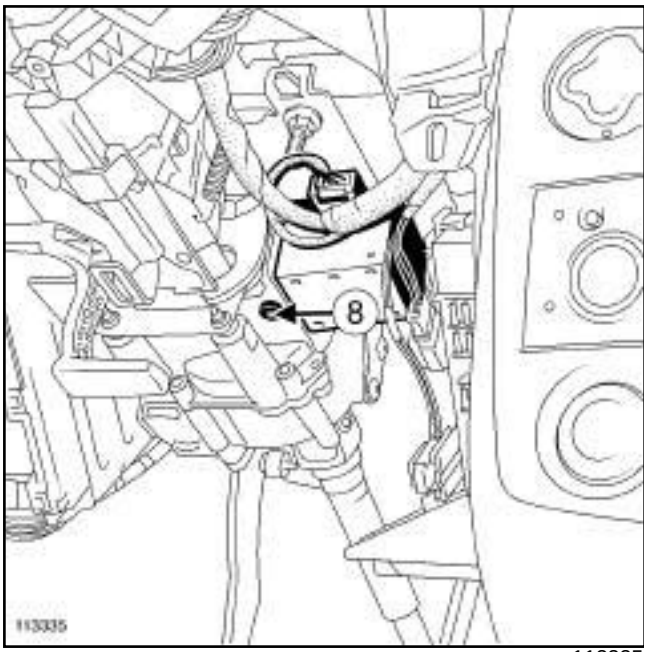


112277

❏ Remove the lower cover (**7**) .

❏ Unclip the connectors.

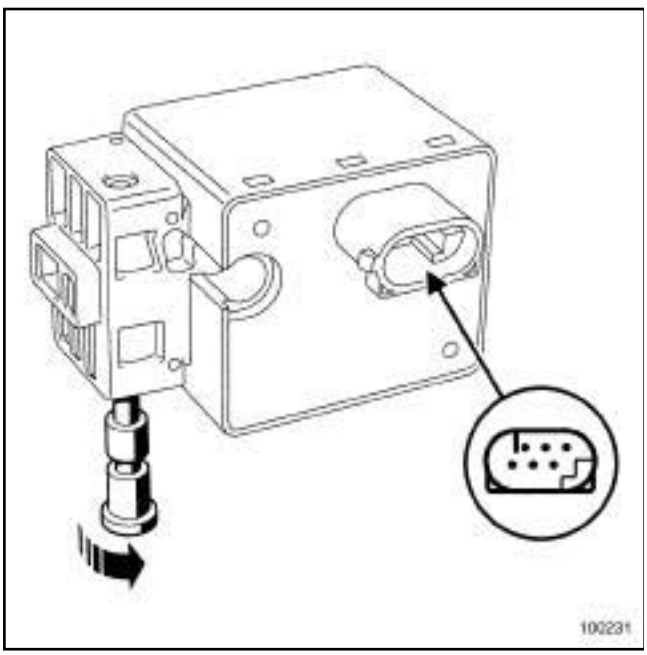
II - OPERATION FOR REMOVAL OF PART CONCERNED



113335

❏ Disconnect the connector.

❏ Remove the electric steering column lock mounting bolt (**8**) by turning it clockwise.



100231

❏

> **WARNING**
> The electric steering column lock mounting bolt has a left-hand thread, it is unscrewed in the opposite direction.

❏ Remove the electric steering column lock.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Position the electric steering column lock,

❏ Torque tighten the **steering column lock mounting bolt (8 Nm)** ***(8)*** ,

❏ Clip the connector.

CODING OF THE ELECTRIC STEERING COLUMN LOCK.

❏

> Note:
> The electric lock is supplied without a code. The engine immobiliser code must be programmed when it is fitted to allow the ignition to be switched on.

> **WARNING**
> The injection computer retains the immobiliser code for life.
> The system has no security code.
> It is forbidden to perform tests with computers borrowed from the Parts Department or from another vehicle which must then be returned. These computers are permanently coded.

❏ If replacing the steering column lock, carry out the necessary operations using the diagnostic tool (see **Fault finding, Replacement of components**) (MR 394, 87B, Passenger compartment connection unit).

❏

> Note:
> The electric steering column lock locks the steering column after a few seconds; coding is then complete. The red immobiliser warning light flashes to indicate that the engine immobiliser function is active.

II - FINAL OPERATION.

❏ Clip on:

- the mounting for the connectors,
- the connectors,
- the sump.

❏ Tighten the bolts ***(3)*** , ***(5)*** ,

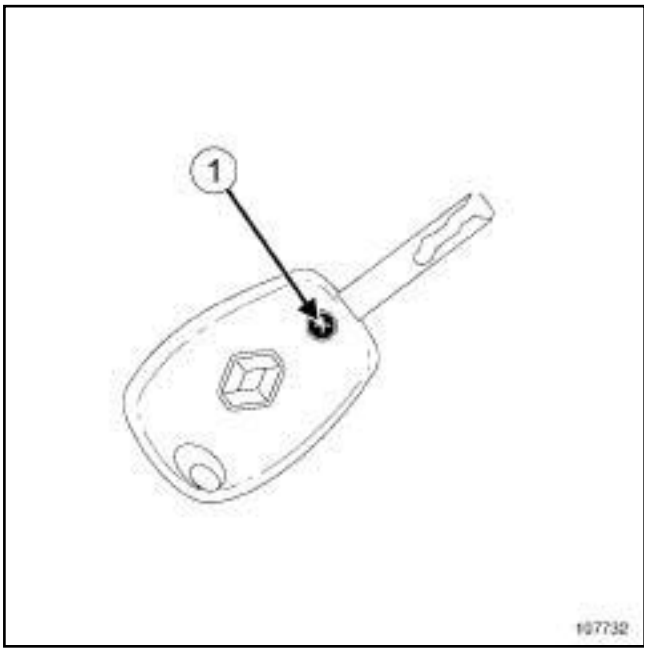
❏ Clip on:

- the plastic rivet,
- the dashboard side panel,
- the trim ***(1)*** ,
- the door seal,
- the dashboard lower trim ***(6)*** .

REMOVAL

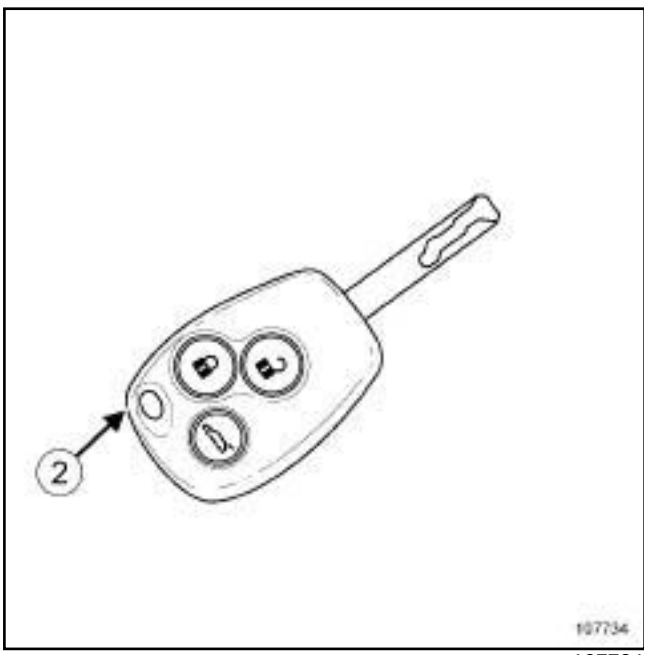
OPERATION FOR REMOVAL OF PART CONCERNED

VEHICLE WITH KEY



107732

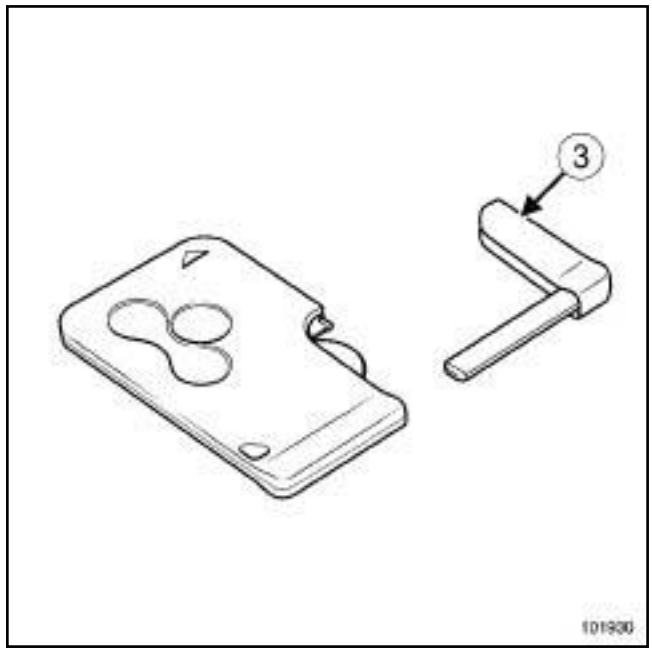
❑ Remove the bolt (**1**) .



107734

❑ Open the key with a coin (**2**) .

VEHICLE WITH CARD



101930

❑ Remove the mechanical insert (**3**) .

REFITTING

I - REFITTING PREPARATION OPERATION

❑

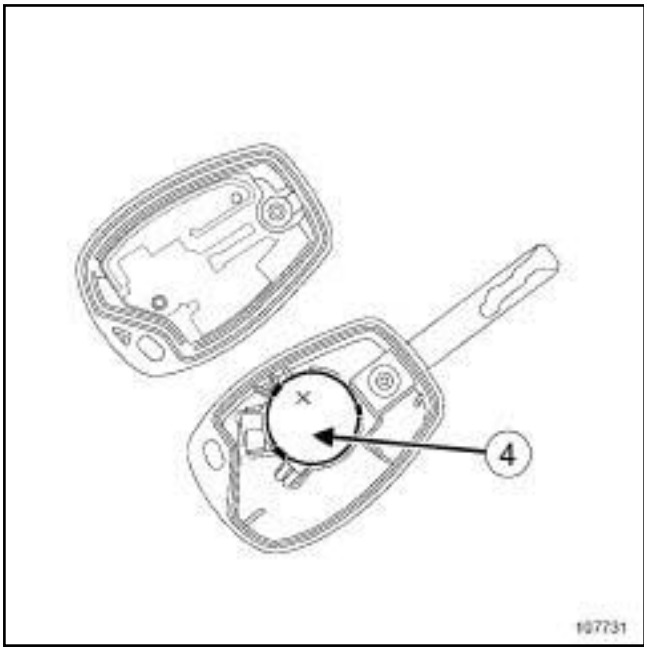
WARNING

To ensure that the remote control operates correctly, take care not to damage the battery contacts.

Only handle the new battery with dry, grease-free hands or wearing clean gloves to avoid any risk of dirt and oxidation on the battery.

II - REFITTING OPERATION FOR PART CONCERNED

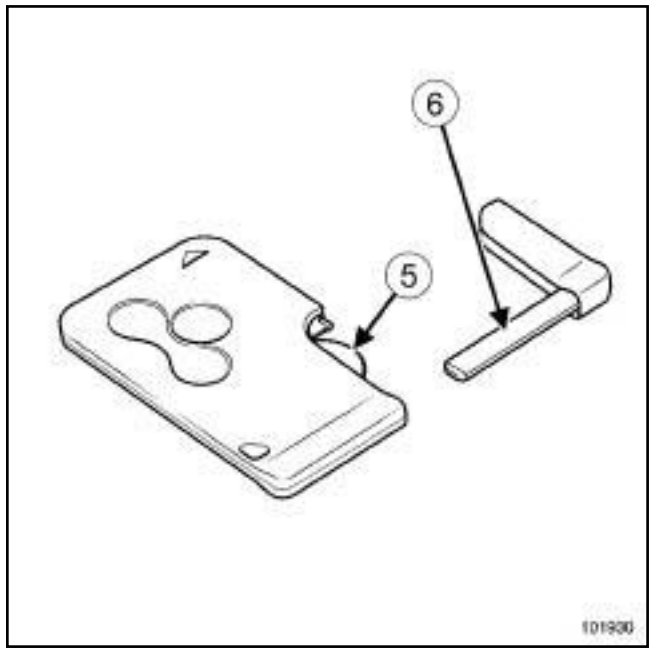
VEHICLE WITH KEY



107731

❏ Replace the battery (**4**) using a flat-blade screwdriver.

VEHICLE WITH CARD



101930

❏ Replace the battery (**5**) .

III - FINAL OPERATION.

VEHICLE WITH KEY

❏ Close the key.

❏ Tighten the bolt ***(1)*** .

VEHICLE WITH CARD

❏ Refit the mechanical insert ***(6)*** .

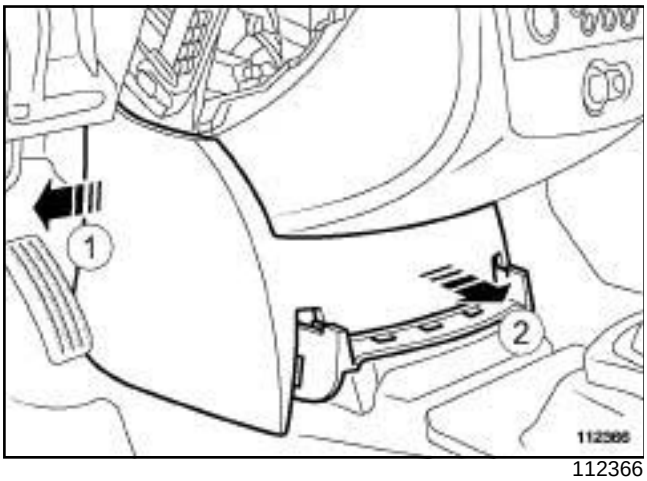
VEHICLE WITH CARD

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).



112366

❏ Unclip the trim at (**1**) and (**2**) .

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

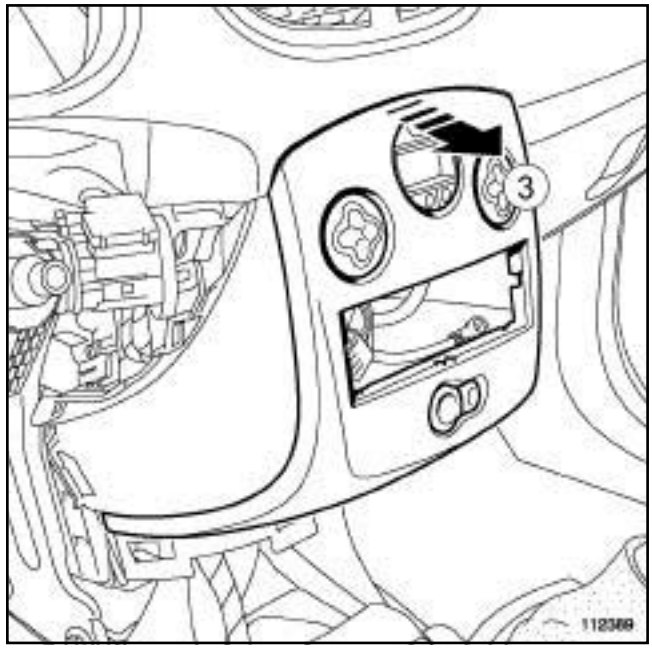
❏ Remove the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❏ Remove the radio navigation system (see **83C**, **Onboard telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

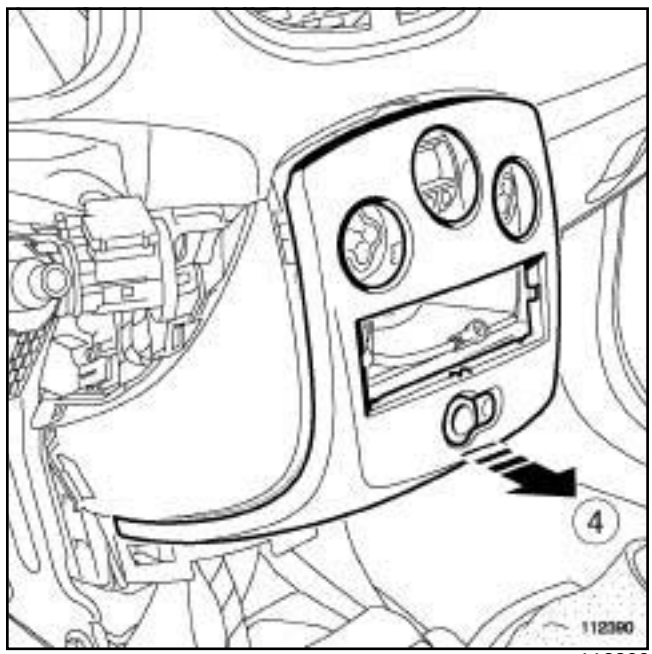
WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❏ Unclip the glovebox using the **(Car. 1363)**.



112389

❏ Unclip the centre front panel at (**3**) .



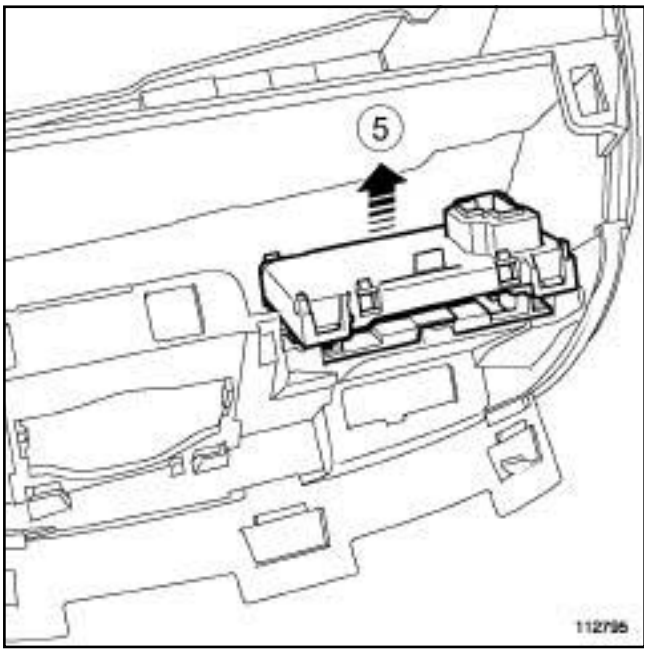
112390

❏ Unclip the centre front panel at (**4**) .

❏ Disconnect the connectors.

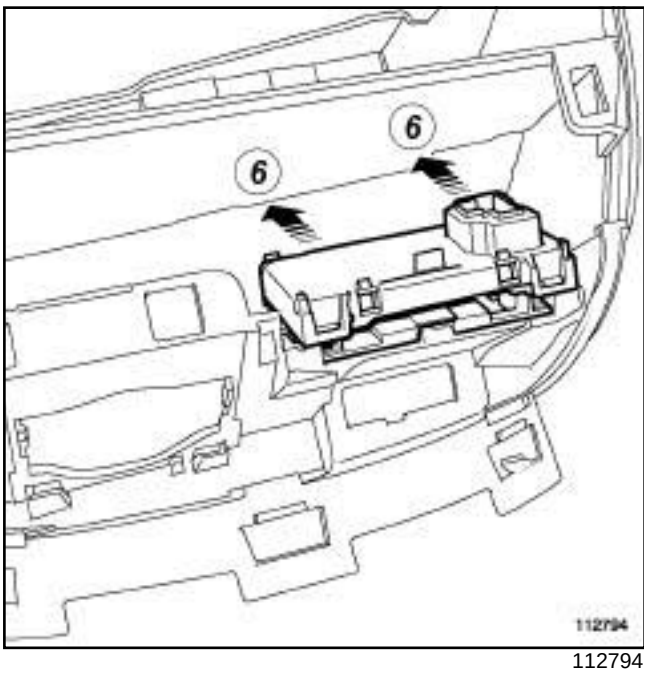
VEHICLE WITH CARD

II - REMOVAL OPERATION FOR THE PART CONCERNED



112795

❏ Lift up the card reader at the rear section (**5**) .

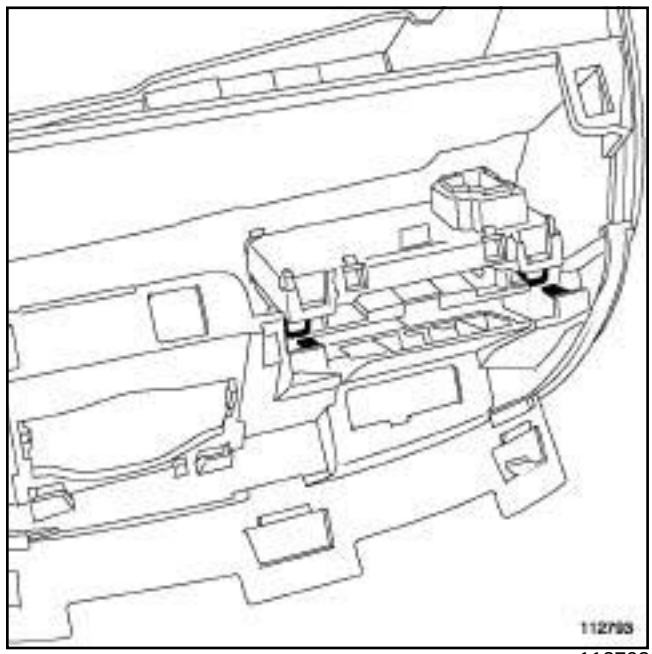


112794

❏ Remove the card reader at (**6**) .

REFITTING

I - REFITTING OPERATING FOR THE PART CONCERNED



112793

❏ Insert the card reader along the guides.

❏ Clip on the card reader.

II - FINAL OPERATION.

❏ Connect the centre front panel connectors.

❏ Clip in the centre front panel beginning with the lower section.

RADIO NO. 01 or RADIO NO. 02 or RADIO NO. 03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

❏ Refit the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❏ Refit the radio navigation system (see **83C**, **On-board telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

VEHICLE WITH CARD

WITHOUT NAVIGATION AID, and VEHICLEWITH-OUT RADIO

❑ Clip the glovebox in position.

❑ Clip the trim under the centre front panel.

❑ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

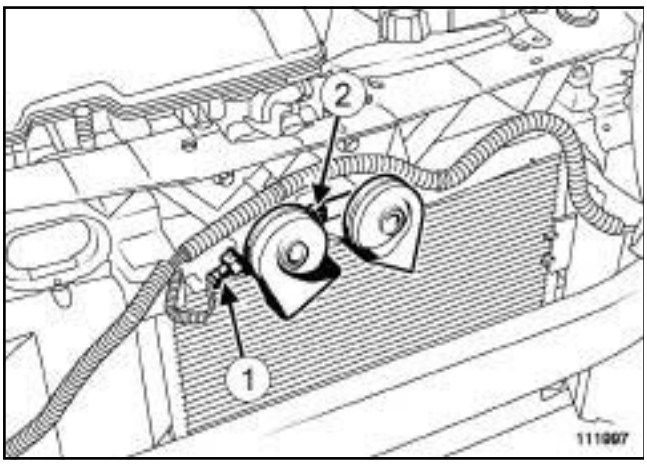
Tightening torques ▽	
horn bolt	**21 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED



111997

❏ Disconnect the connector (**1**) .

❏ Remove:

- the bolt (**2**) ,
- the horn.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the horn.

❏ Torque tighten the **horn bolt (21 Nm)** ***(2)*** .

❏ Connect the connector ***(1)*** .

II - FINAL OPERATION.

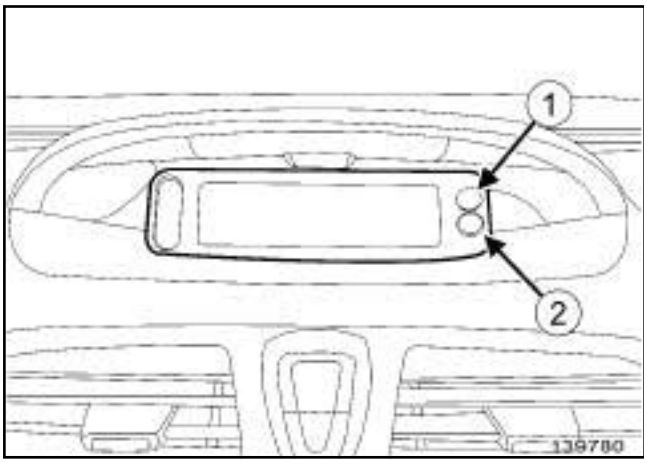
❏ Refit the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

SETTING THE CLOCK

WITHOUT NAVIGATION AID, and RADIO NO. 01 or RADIO NO. 02 or RADIO NO. 03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06 or RADIO NO. 07 or RADIO NO. 08

❏ Switch on the ignition.

❏ Switch the radio on.



139780

❏ Adjusting the hour: press button (**1**) to obtain the correct value.

❏ Adjusting the minutes: press button (**2**) to obtain the correct value.

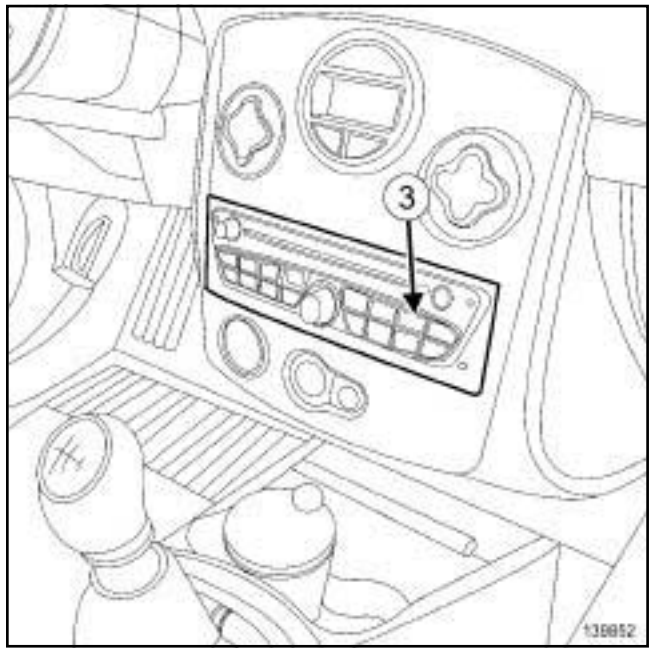
Note:

Pressing and holding enables the values to be scrolled through more quickly.

WITHOUT NAVIGATION AID, and RADIO NO. 07 or RADIO NO. 08

❏ Switch on the ignition.

❏ Switch the radio on.



139852

❏ Press the « SETTINGS » button (**3**) .

❏ Using the central button, select « System settings » in the central display.

❏ Confirm the operation by pressing the OK button or the right-hand arrow.

❏ Using the central button, select « Clock » in the central display.

❏ Confirm the operation by pressing the OK button or the right-hand arrow.

❏ Two groups of values appear on the display.

❏ Setting the hour: turn the central button towards the right or left to obtain the correct value.

> Note:
>
> The hour can also be set by pressing on the + or - buttons on the steering column switch.

❏ To move on to setting the minutes, press the « RIGHT » button on the radio or the « RIGHT » button on the steering column switch.

❏ Adjusting the minutes: turn the central button towards the right or left to obtain the correct value.

> Note:
>
> The minutes can also be set by pressing the + or - buttons on the steering column switch.

❏ To go back to setting the hour, press the « LEFT » button on the radio or the « LEFT » button on the steering column switch.

NAVIGATION AID 1 LEVEL or NAVIGATION AID 1

❏ The time is set through the navigation system.

As soon as the system detects the satellites, the time is automatically displayed.

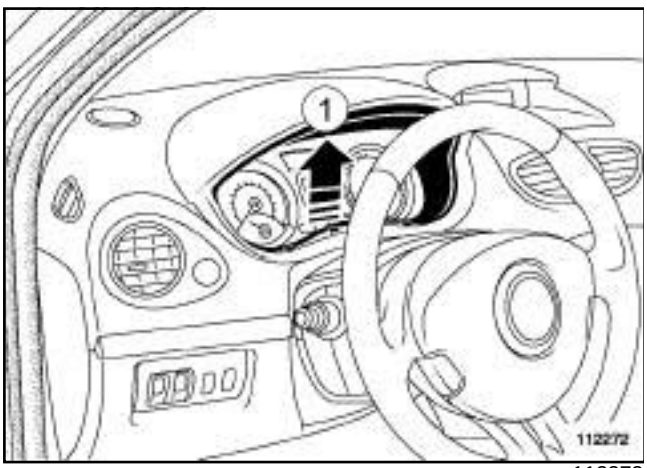
Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

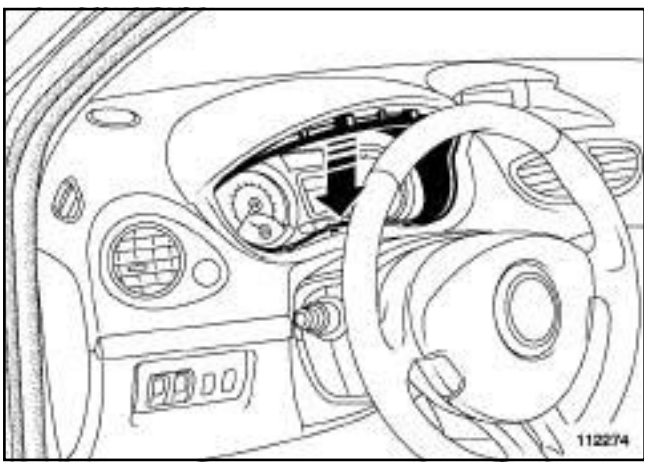
❑ If replacing the instrument panel, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 83A, Instrument panel).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112272

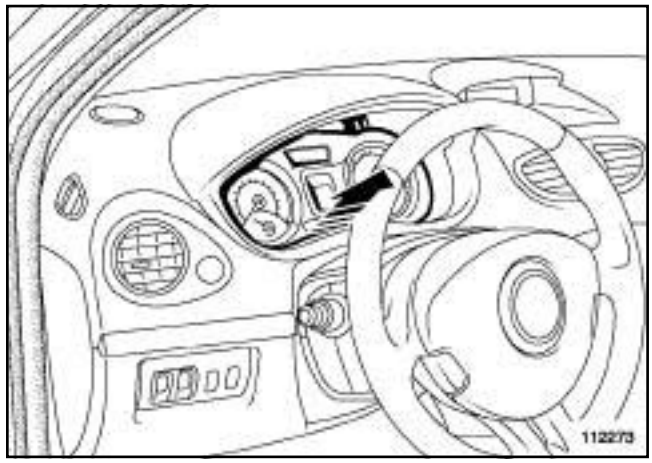
❑ Unclip the lower section of trim (**1**) .



112274

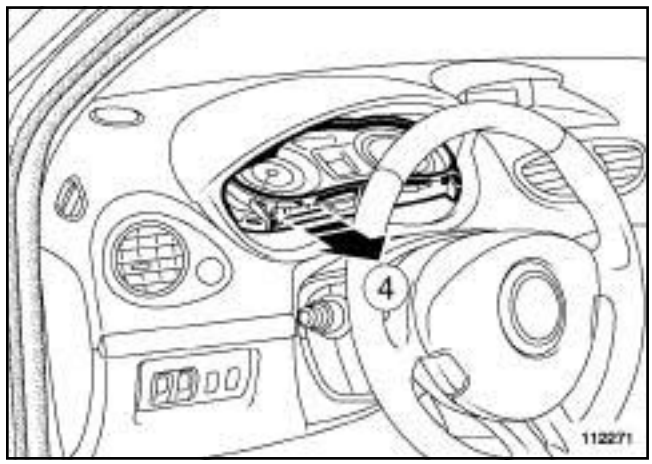
❑ Unclip the upper trim .

❑ Remove the trim.



112273

❑ Unclip instrument panel at .



112271

❑ Remove the instrument panel (**4**) .

❑ Disconnect the connectors.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Connect the connectors to the instrument panel.

❑ Clip on:

- the upper section of the instrument panel,
- the lower section of the instrument panel,
- the instrument panel frame trim.

II - FINAL OPERATION

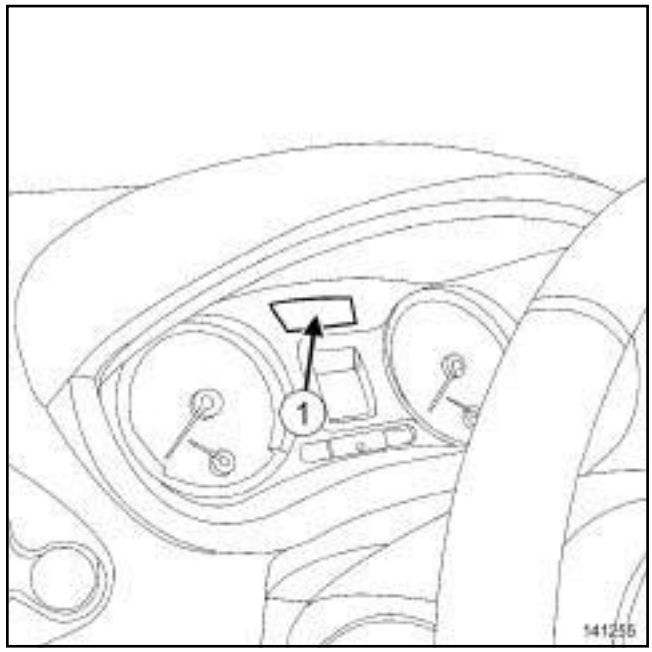
❑ If replacing the instrument panel, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 83A, Instrument panel).

Note:

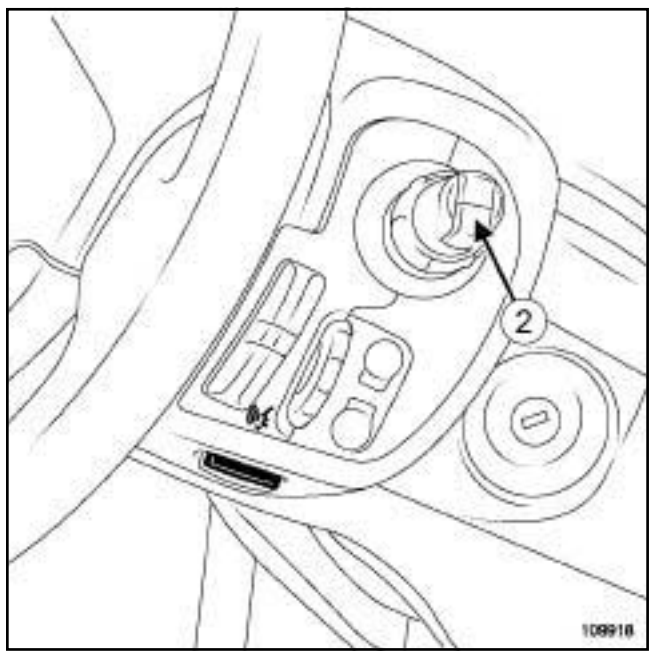
The oil change interval must only be reinitialised after a service in accordance with the maintenance booklet.

REINITIALISING THE DISPLAY AFTER A SERVICE IN ACCORDANCE WITH THE MAINTENANCE PROGRAMME

❑ Switch on the ignition.



141255



109918

❑ Select the « OIL CHANGE INTERVAL » information on the display (**1**) by pressing the « Trip computer scroll » button (**2**) .

❑ Keep the button (**2**) pressed for **10 seconds** :

- the value on the display flashes 4 times,
- the value is replaced by the reinitialised oil change interval value,
- this new value flashes 4 times.

❑ Release the « Trip computer scroll » button (**2**) .

The value illuminates continuously and is stored.

❑ Switch off the ignition.

WITHOUT ANTI-LOCK BRAKING SYSTEM

Tightening torques ▽	
vehicle speed management unit bolts	**12 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

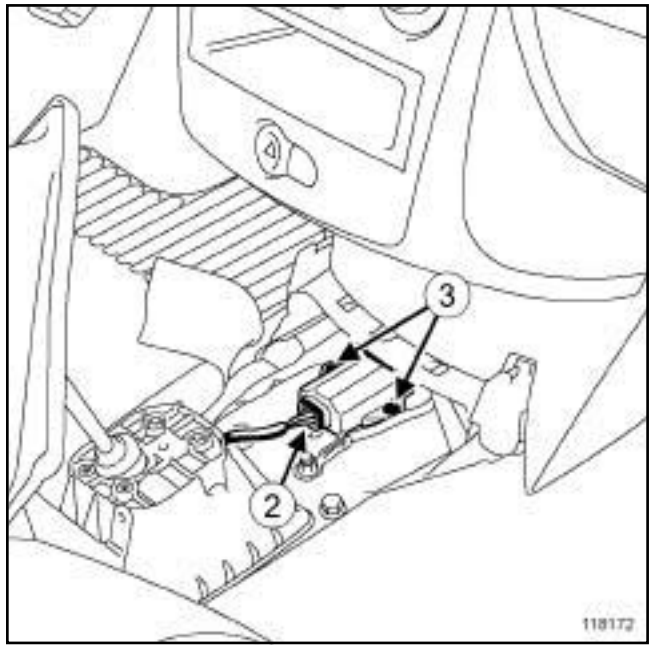
❑ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



118173

❑ Cut the carpet under the centre console at (**1**) .



118172

❑ Disconnect the vehicle speed management unit connector (**2**) .

❑ Remove:

- the bolts (**3**) from the vehicle speed management unit,
- the vehicle speed management unit.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the vehicle speed management unit,
- the vehicle speed management unit bolts.

❑ Torque tighten the **vehicle speed management unit bolts (12 Nm)**.

❑ Connect the vehicle speed management unit connector.

❑ Attach the carpet using clips (part no. **77 01 047 751**).

II - FINAL OPERATION.

❑ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

NAVIGATION AID 1 LEVEL or NAVIGATION AID 1

I - LIST OF COMPONENTS

The "navigation" equipment consists of:

- a navigation aerial (see **86A**, **Radio**, **Radio aerial: Removal - Refitting**, page **86A-11**)

NAVIGATION AID 1

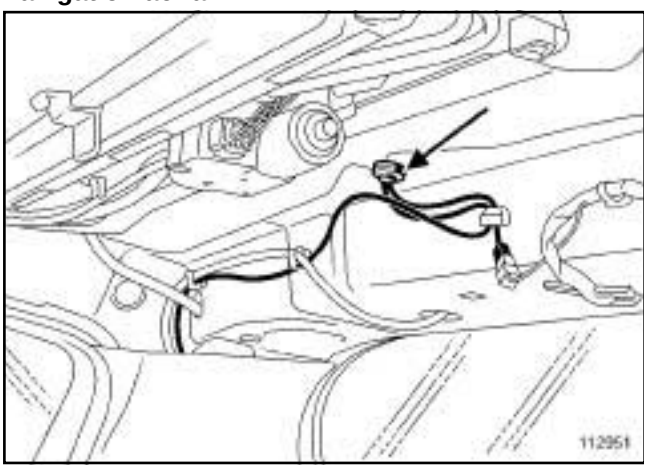
- a radionavigation system (see **83C**, **On-board telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**)
- a navigation screen (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**)

NAVIGATION AID 1 LEVEL

- a "computer - navigation screen" assembly (see **83C**, **On-board telematics system**, **Navigation computer: Removal - Refitting**, page **83C-4**)
- a multimedia network interface unit (see **83C**, **On-board telematics system**, **Multimedia network interface unit: Removal - Refitting**, page **83C-7**)
- a remote control and its support on the centre console

II - LOCATION OF COMPONENTS

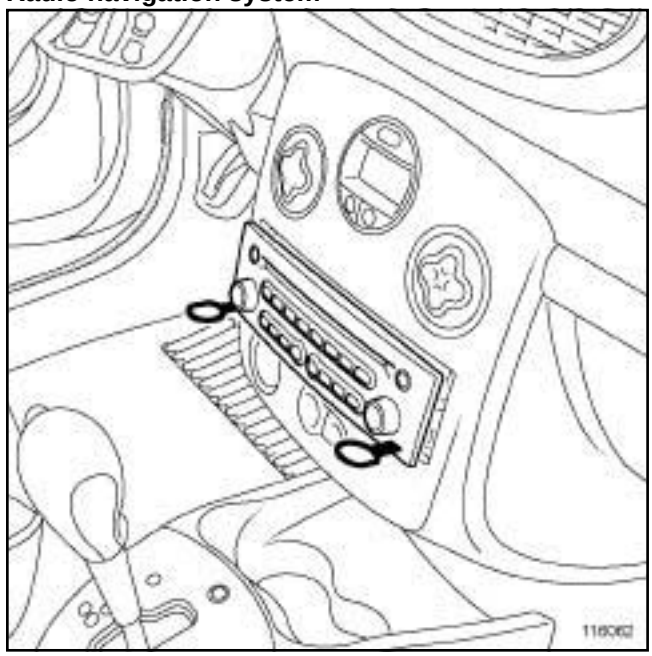
Navigation aerial



112951

NAVIGATION AID 1

Radio navigation system



116062

Navigation screen

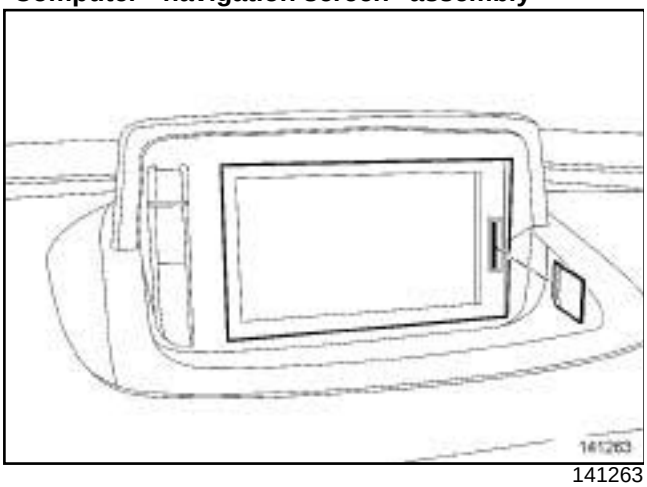


113389

NAVIGATION AID 1 LEVEL or NAVIGATION AID 1

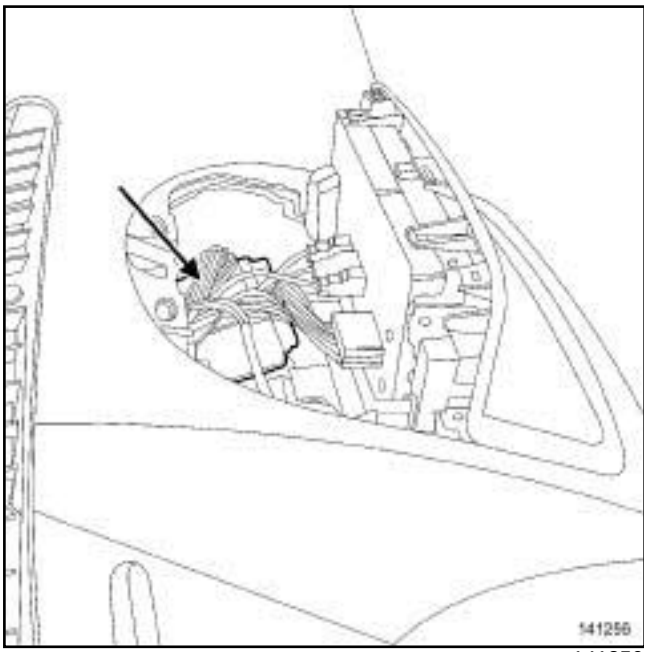
NAVIGATION AID 1 LEVEL

"Computer - navigation screen" assembly



141263

Multimedia network interface unit



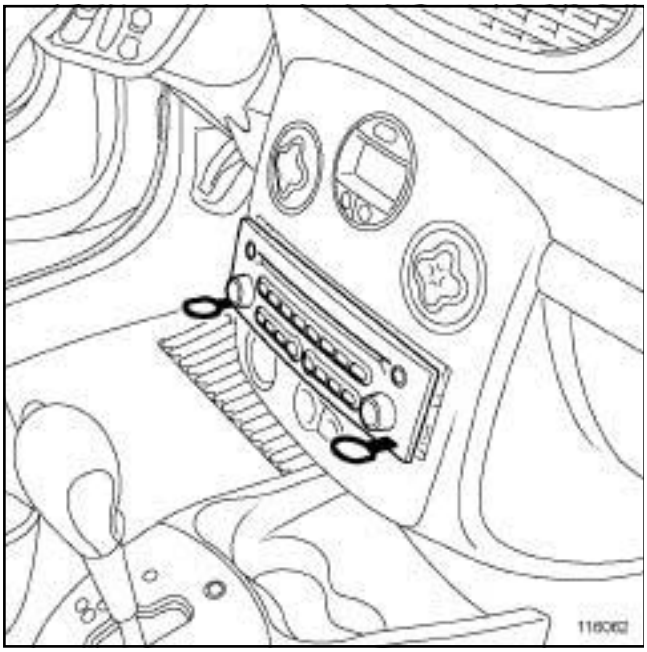
141256

NAVIGATION AID 1

Special tooling required	
Ms. 1544	Tool for removing radios - Carminat Becker and Cabasse.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



116062

❑ Remove the radio navigation system using tool **(Ms. 1544)**.

❑ Disconnect the radio navigation system connectors.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Connect the radio navigation system connectors.

❑ Refit the radio navigation system.

II - FINAL OPERATION

❑ Carry out the necessary operations (see **MR 394 Fault finding, 83C, Navigation, Replacement of components**).

NAVIGATION AID 1 LEVEL

Special tooling required	
Car. 1363	Set of trim removal levers.

Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ If the "computer - navigation screen" is being replaced, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86C, Navigation).

❏ Switch off the ignition.

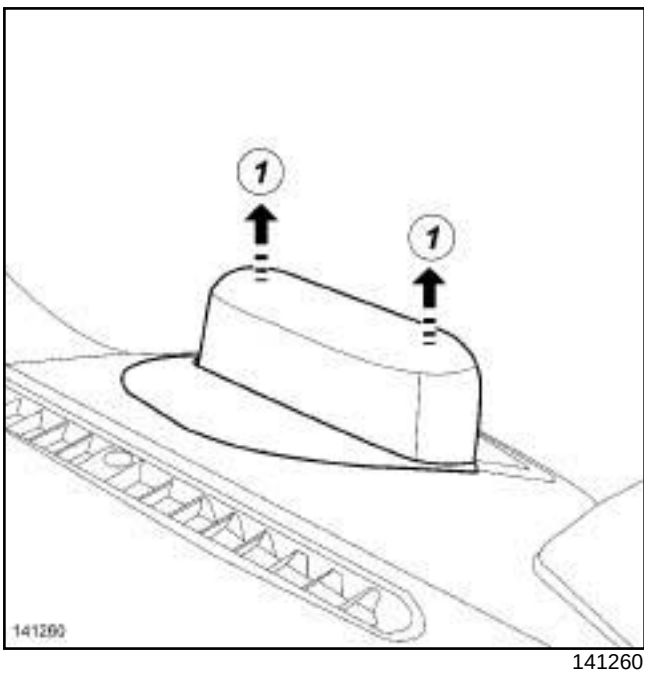
WARNING

To prevent damaging the navigation system, wait **1 minute** after switching off the + after ignition feed.

WARNING

Do not press on the screen as this may damage it.

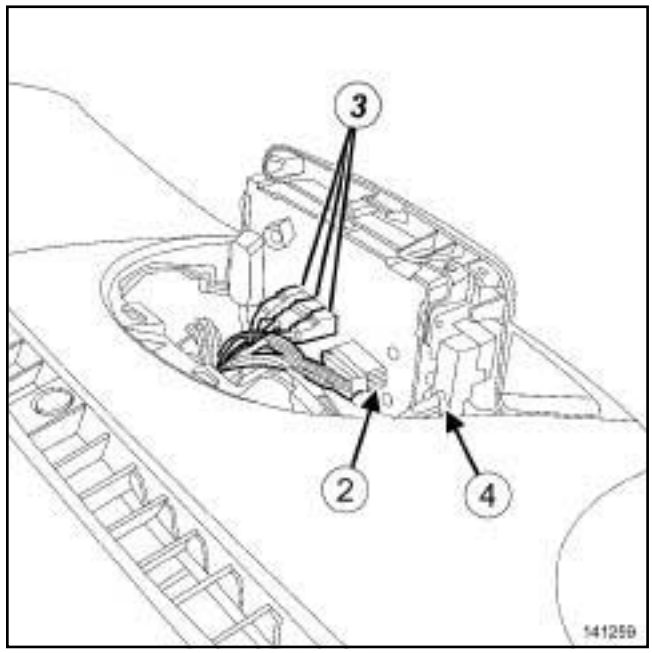
❏ Take the SD card out of its housing.



141260

❏ Unclip the navigation screen upper trim (**1**) using the tool **(Car. 1363)**.

II - OPERATION FOR REMOVAL OF PART CONCERNED



141259

❏ Mark the routing of the wiring and the aerials.

WARNING

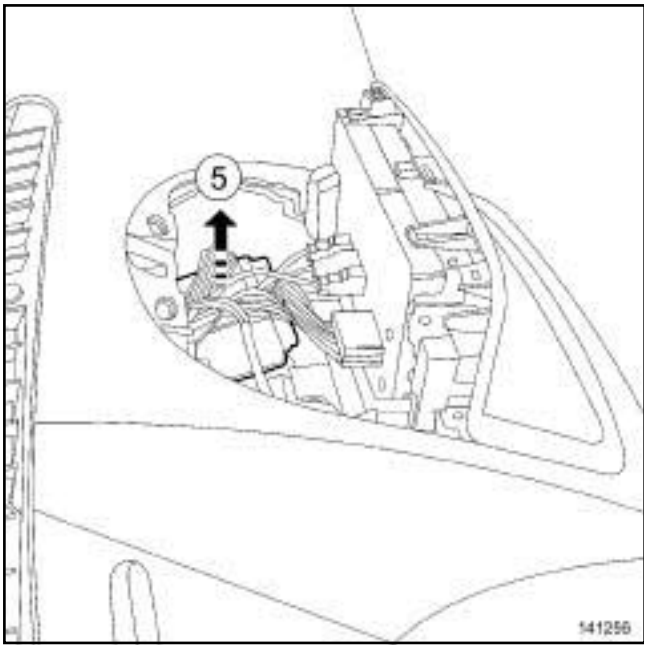
To ensure correct operation:

- do not pinch the aerial cables,
- do not bend the aerial cables,
- do not force the aerial cables when refitting.

❏ Mark the aerial position on the unit.

❏ Disconnect:

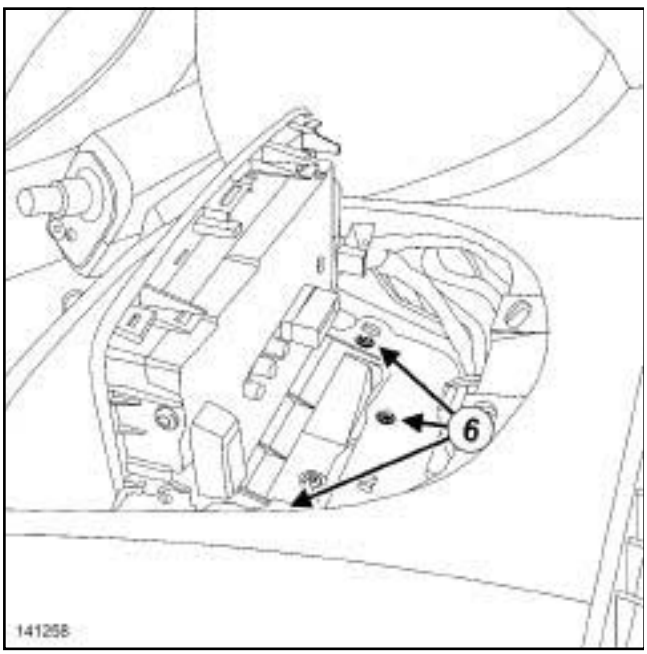
- the connector (**2**) of the navigation screen,
- the aerials (**3**) on the navigation screen,
- the connector (**4**) of the seat belt reminder warning light.



141256

❏ Unclip the multimedia network interface unit from the navigation screen support (**5**) .

❏ Move aside the multimedia network interface unit.

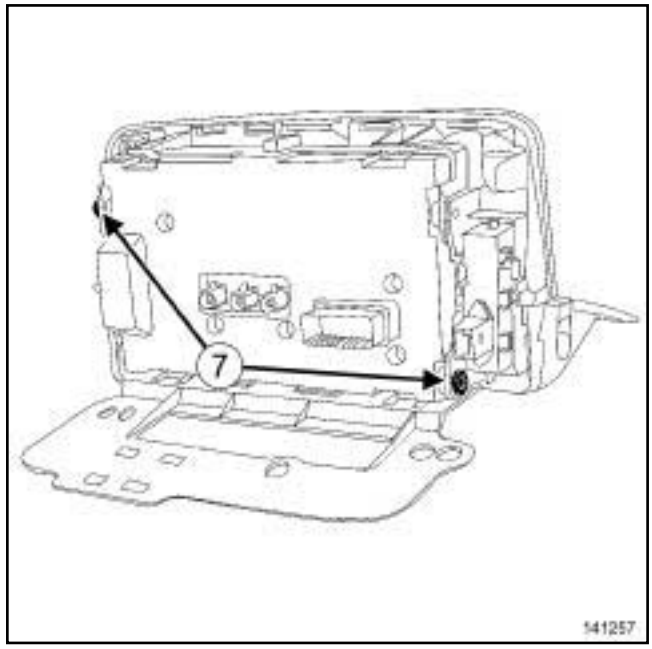


141258

❏ Remove the bolts (**6**) from the « support - navigation screen » assembly.

❏ Unclip the « support - navigation screen » assembly.

❏ Remove the « support - navigation screen » assembly.



141257

❏ Remove the navigation screen bolts (**7**) .

❏ Unclip the navigation screen from the support.

❏ Remove the navigation screen.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏

WARNING
Do not press on the screen as this may damage it.

❏ Refit:

- the navigation screen on the support,

- the « support - navigation screen » assembly.

❏ Fit the multimedia network interface unit.

❏ Clip on the multimedia network interface unit.

WARNING

To ensure correct operation:

- do not pinch the aerial cables,

- do not bend the aerial cables,

- do not force the aerial cables when refitting.

NAVIGATION AID 1 LEVEL

❏ Connect:

- the connector of the navigation screen,
- the aerials on the navigation screen in the position marked during removal,
- the connector of the seat belt reminder warning light.

❏ Refit the wiring in the position marked during removal.

II - FINAL OPERATION

❏ Clip on the navigation screen upper trim.

❏ Insert the SD card in its housing.

❏ Switch on the ignition.

❏ If the "computer - navigation screen" is being replaced, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86C, Navigation).

❏ Check the correct operation:

- of the seat belt warning light,
- of the navigation system, if the satellites can be accessed.

NAVIGATION AID 1 LEVEL

Special tooling required	
Car. 1363	Set of trim removal levers.

Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

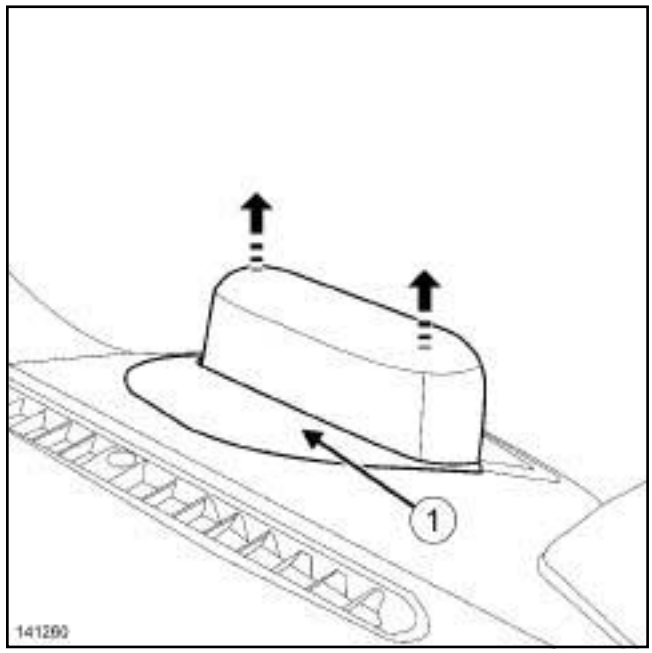
❏ When replacing the multimedia network interface unit, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86C, Multimedia network interface unit).

❏ Switch off the ignition.

WARNING
To prevent damaging the navigation system, wait **1 minute** after switching off the + after ignition feed.

WARNING
Do not press on the screen as this may damage it.

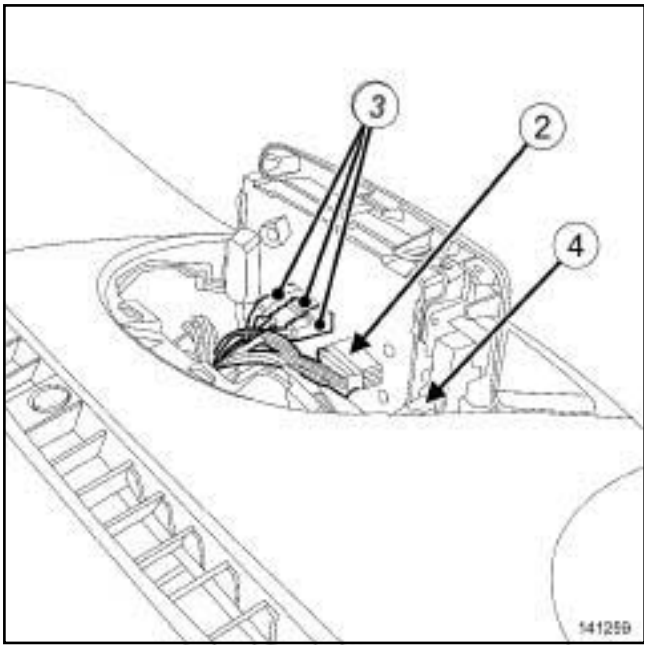
II - OPERATION FOR REMOVAL OF PART CONCERNED



141260

❏ Unclip the navigation screen upper trim (**1**) using the tool **(Car. 1363)**.

NAVIGATION AID 1 LEVEL



141259

❏ Mark the routing of the wiring and the aerials.

WARNING

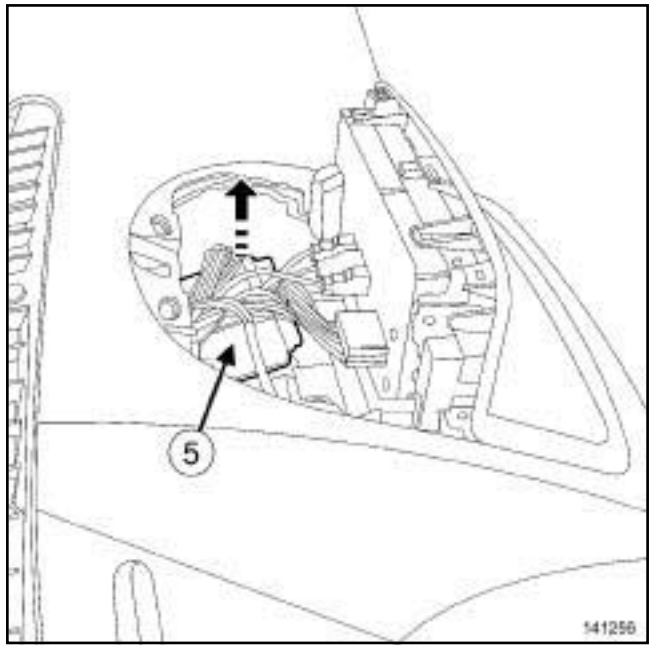
To ensure correct operation:

- do not pinch the aerial cables,
- do not bend the aerial cables,
- do not force the aerial cables when refitting.

❏ Mark the position of the aerials on the unit.

❏ Disconnect:

- the connector (**2**) of the navigation screen,
- the aerials (**3**) on the navigation screen,
- the connector (**4**) of the seat belt reminder warning light.



141256

❏ Unclip the multimedia network interface unit (**5**) from the navigation screen support.

❏ Remove the multimedia network interface unit.

❏ Disconnect the multimedia network interface unit connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the multimedia network interface unit connector

❏ Fit the multimedia network interface unit.

❏ Clip on the multimedia network interface unit.

❏ Connect:

- the connector of the navigation screen,
- the aerials on the navigation screen in the position marked during removal,
- the connector of the seat belt reminder warning light.

NAVIGATION AID 1 LEVEL

❏ Refit the wiring in the position marked during removal.

WARNING

To ensure correct operation:

- do not pinch the aerial cables,
- do not bend the aerial cables,
- do not force the aerial cables when refitting.

❏ Clip on the navigation screen upper trim.

II - FINAL OPERATION

❏ Switch on the ignition

❏ Check the operation of the seat belt warning light.

❏ Check the operation of navigation system, if the satellites can be accessed.

❏ When replacing the multimedia network interface unit, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86C, Multimedia network interface unit).

NAVIGATION AID 1

The navigation screen is located in the offset radio display. It is not sold separately.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

❑ Remove the radio display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❑ Refit the radio display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) .

NAVIGATION AID 1

The navigation aerial is the same as the radio aerial.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

❑ Remove the radio aerial (see **86A**, **Radio**, **Radio aerial: Removal - Refitting**, page **86A-11**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

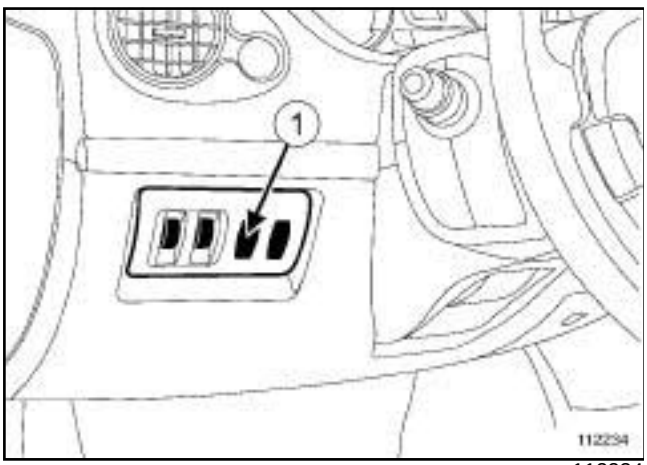
❑ Refit the radio aerial (see **86A**, **Radio**, **Radio aerial: Removal - Refitting**, page **86A-11**) .

I - LIST OF COMPONENTS

No.	Description
(1)	Switch
(2)	Steering wheel switch
(3)	Brake switch
(4)	Clutch switch

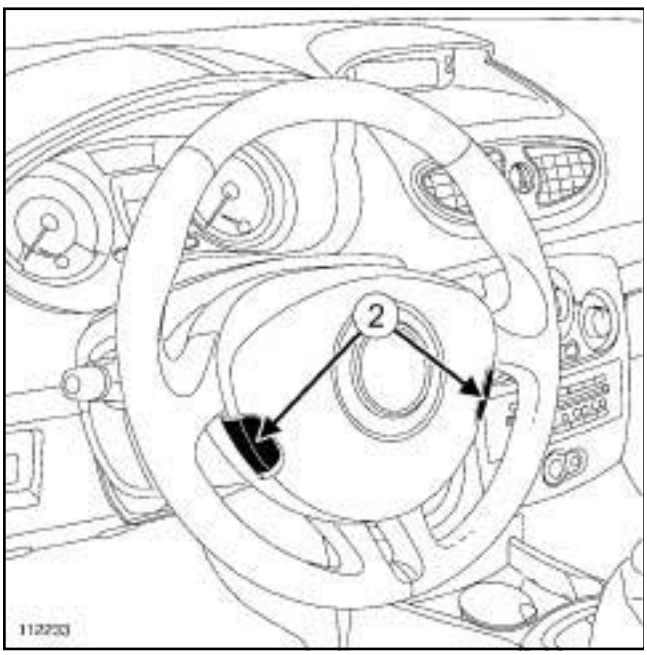
II - LOCATION OF COMPONENTS

1 - Switch



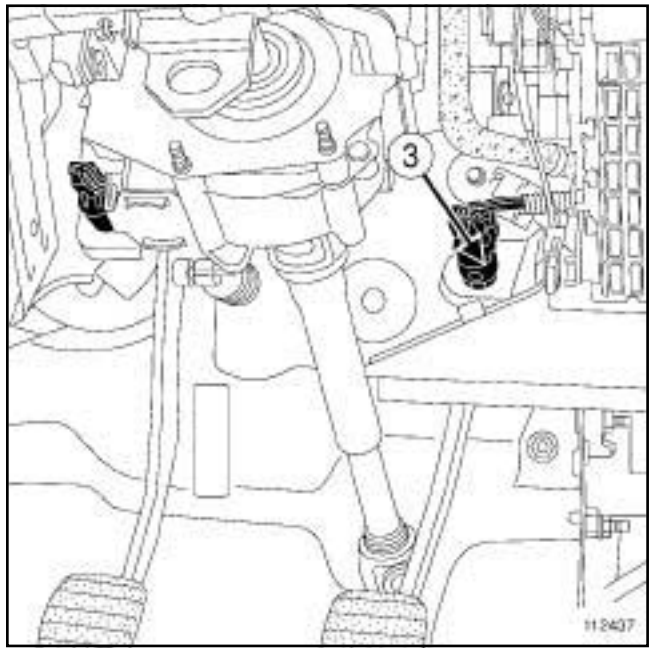
112234

2 - Steering wheel switch



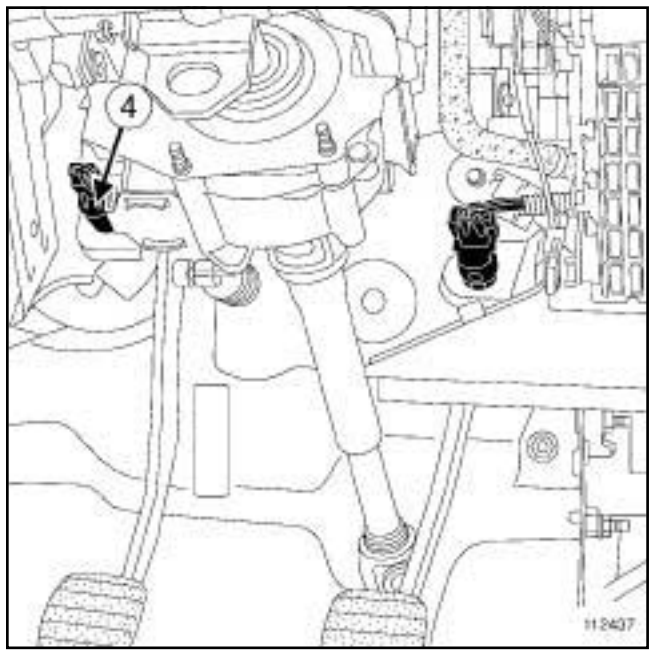
112233

3 - Brake switch



112437

4 - Clutch switch

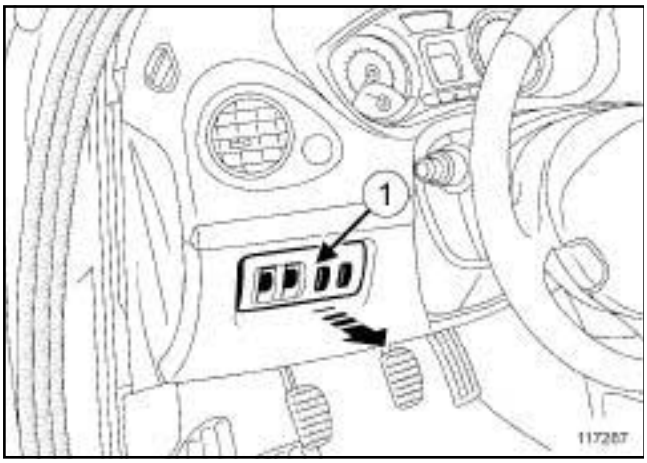


112437

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

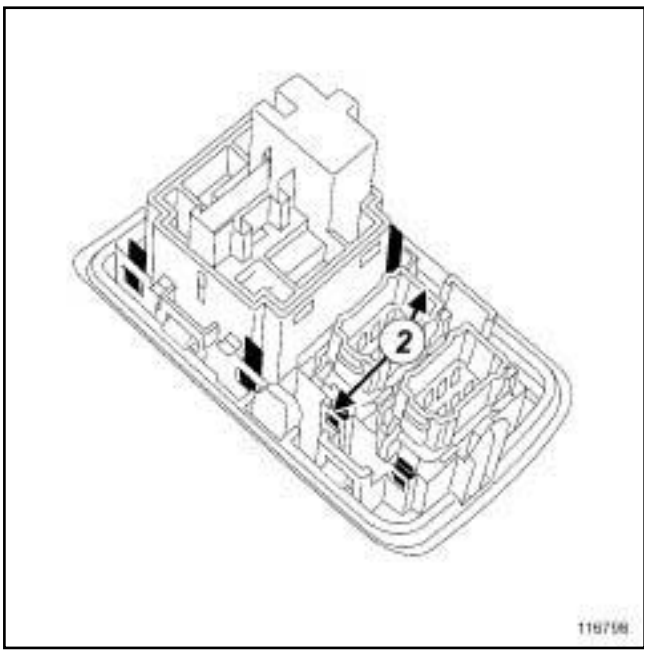


117287

❑ Unclip the switch panel (**1**) using the **(Car. 1363)**.

❑ Disconnect the connectors.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116798

❑ Remove the switch by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the switch on the switch panel.

❑ Connect the connectors.

II - FINAL OPERATION.

❑ Clip the switch panel onto the lower cover.

The rotary switch is part of the steering column control assembly. It cannot be replaced on its own.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the steering column control assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

❏ Remove:

- the lighting switch (see **84A**, **Control - Signals**, **Signals and lighting switch: Removal - Refitting**, page **84A-9**) ,
- the windscreen wiper switch (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

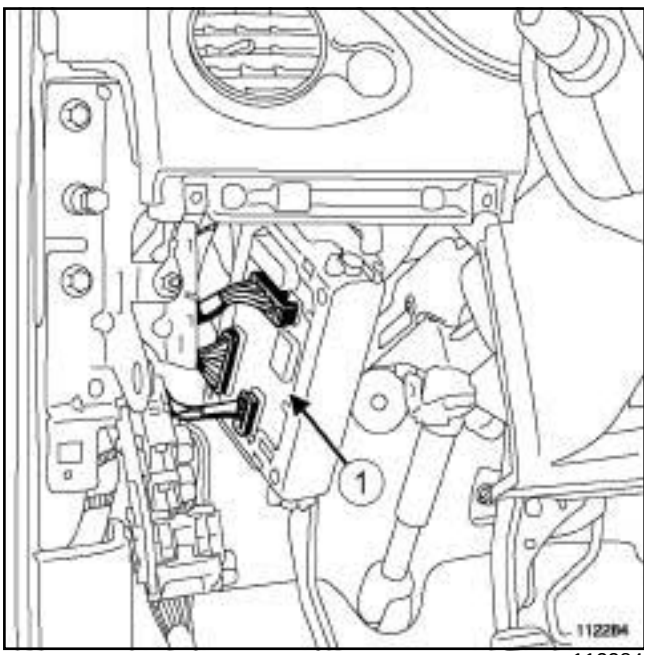
- the lighting switch (see **84A**, **Control - Signals**, **Signals and lighting switch: Removal - Refitting**, page **84A-9**) ,
- the windscreen wiper switch (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) .

II - FINAL OPERATION.

❏ Refit the steering column control assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

No.	Description
(1)	UCH
(2)	Steering wheel gear selector
(3)	Windscreen wiper switch
(4)	Signalling light switch
(5)	Remote control satellite

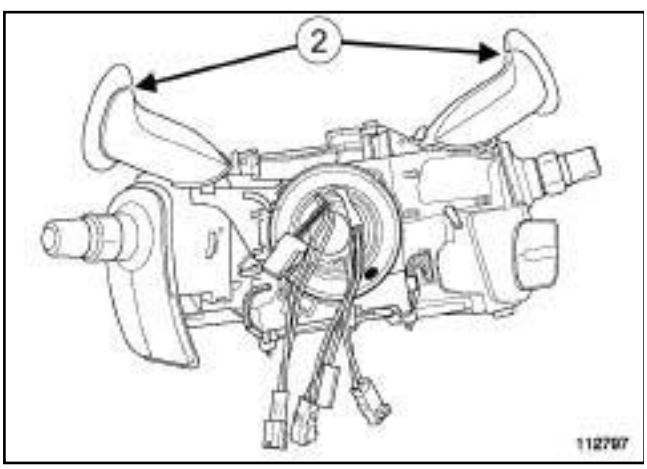
I - UCH



112284

UCH (**1**)

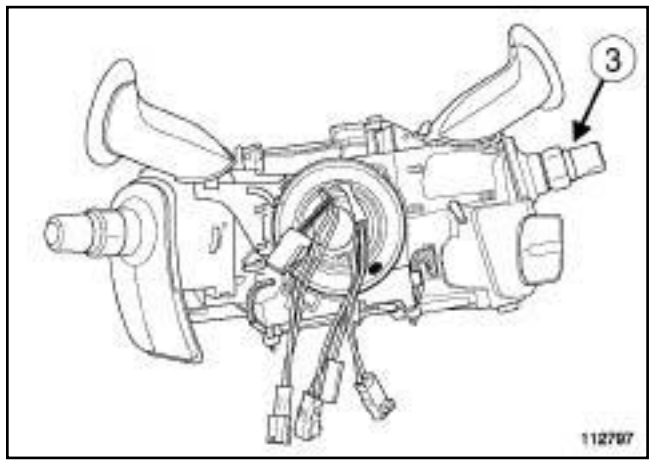
II - STEERING WHEEL GEAR SELECTOR



112797

Steering wheel gear selector (**2**) (the selector is an integral part of the rotary switch)

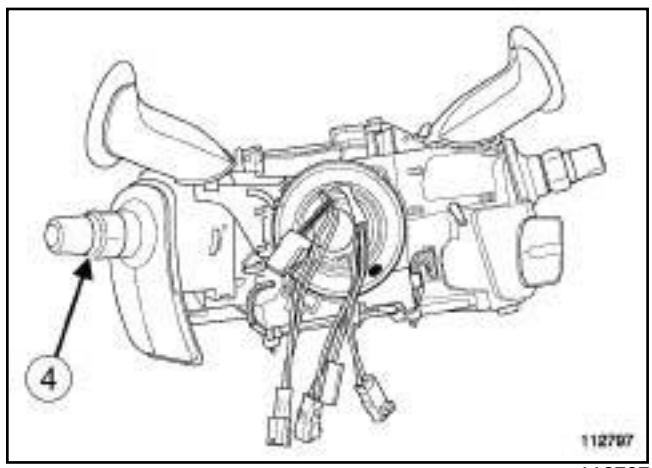
III - WINDSCREEN WIPER SWITCH



112797

Windscreen wiper switch (**3**)

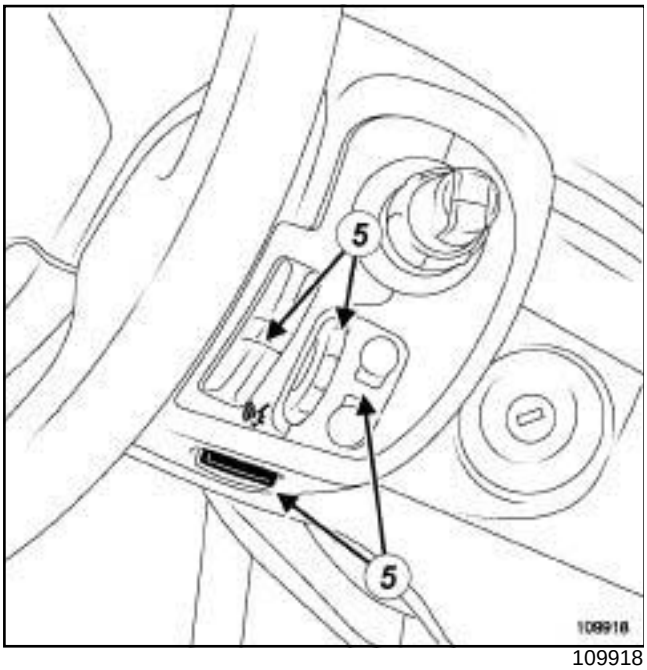
IV - SIGNALLING LIGHT SWITCH



112797

Signalling light switch (**4**)

V - REMOTE CONTROL SATELLITE



109918

Car phone control satellite (**5**) (the satellite is an integral part of the windscreen wiper switch)

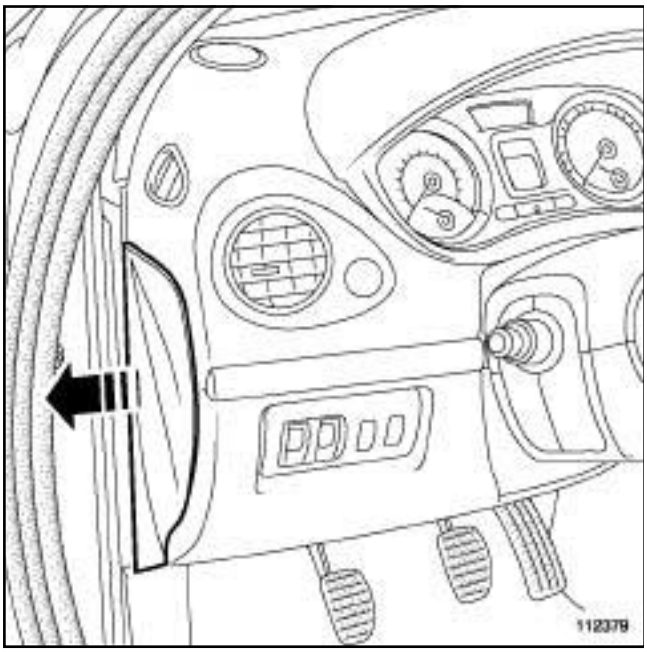
REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove:

- the driver's frontal airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) .

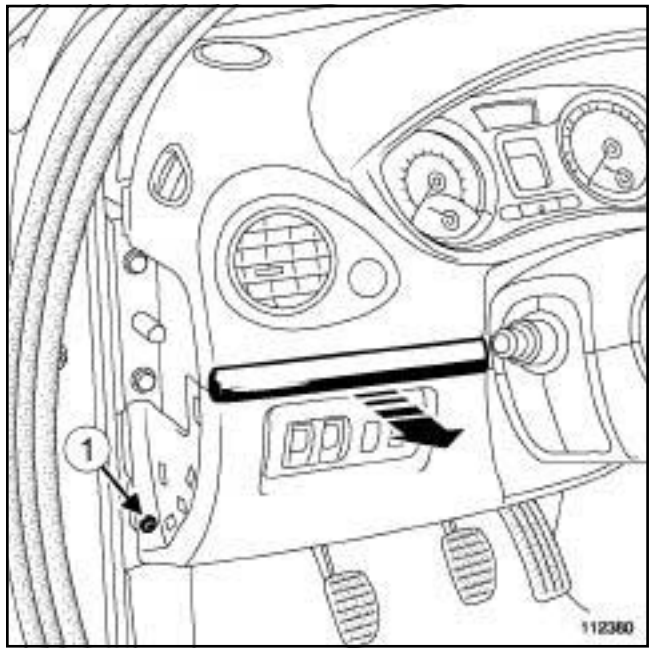
❏ The wheels must be set straight ahead.



112379

❏ Remove the front door seal

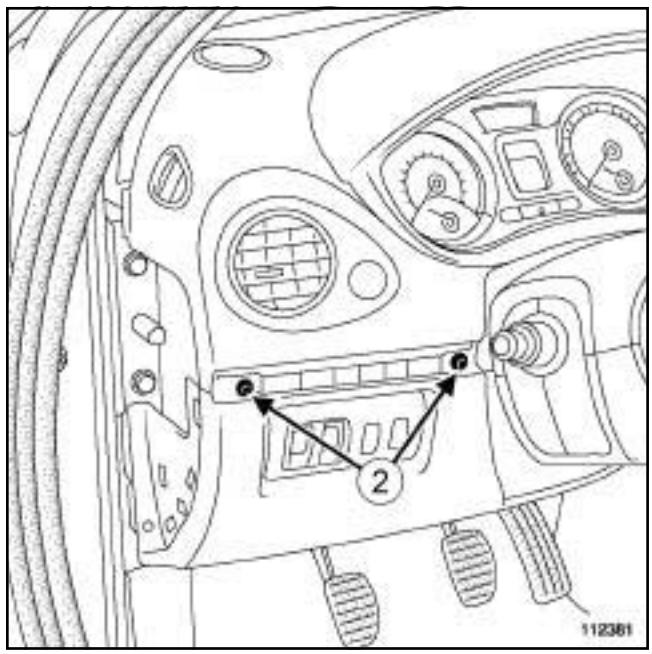
❏ Unclip the dashboard side panel.



112380

❏ Unclip the protective strip.

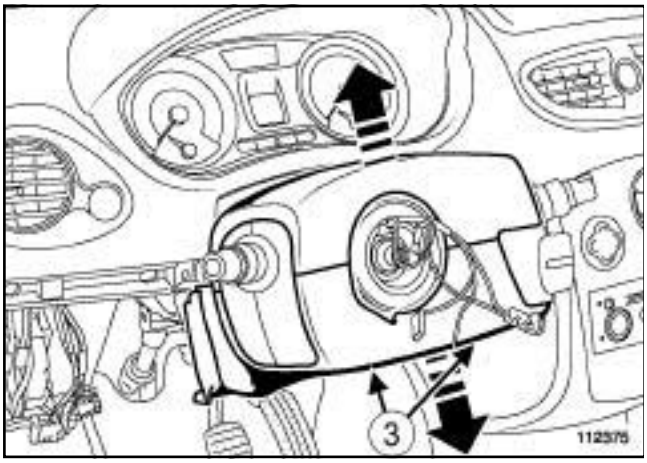
❏ Remove the bolt (**1**) .



112381

❏ Remove bolts (**2**) .

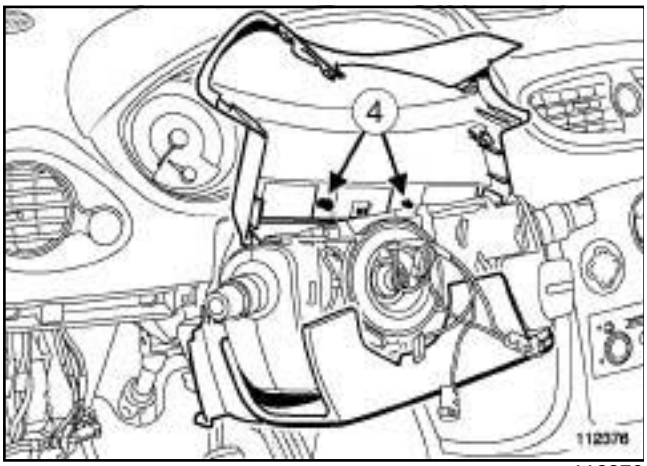
❏ Unclip the trim underneath the steering wheel.



112375

❏ Remove the lower half cowling mounting bolts (**3**) .

❏ Unclip the half covers.

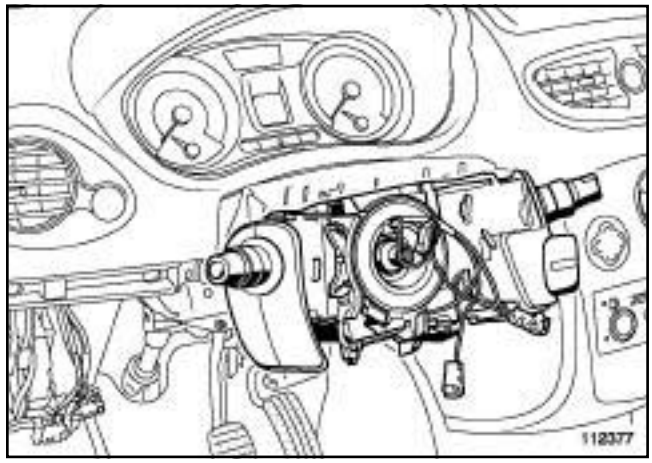


112376

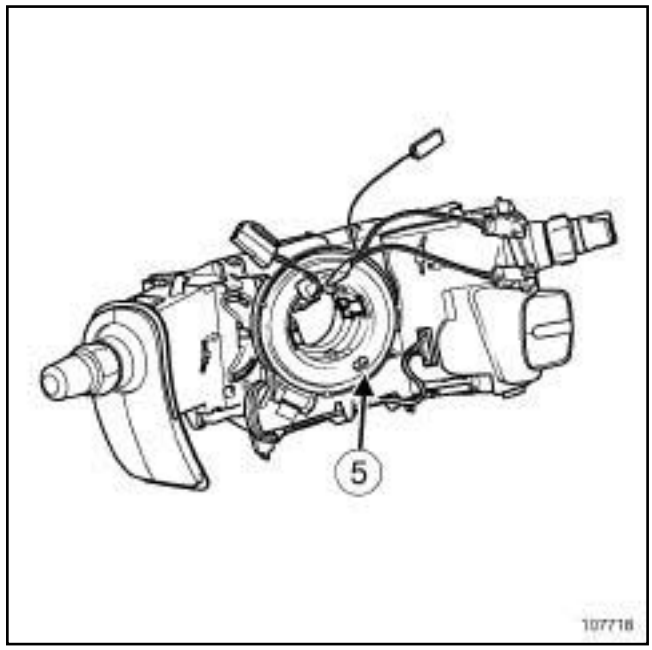
❏ Remove the gaiter upper trim by pressing down on the clips (**4**) .

❏ Extract the lower half-cowling from the driving position height adjustment handle.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112377

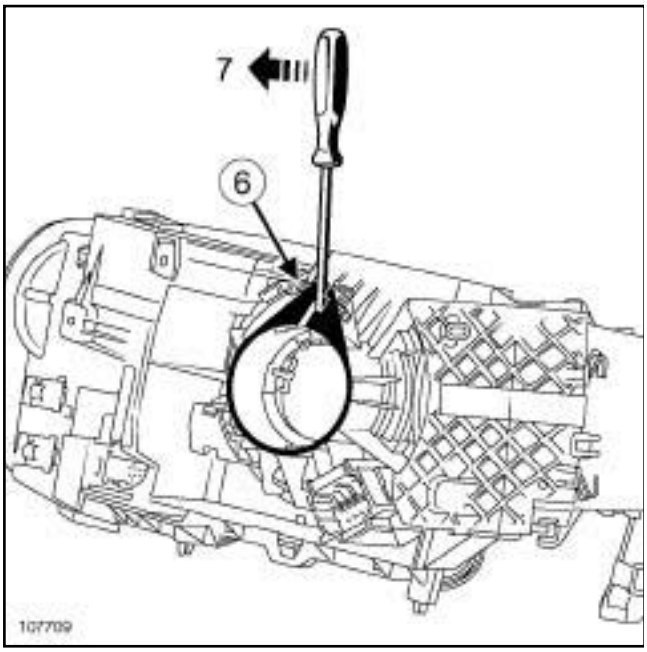


107718

❏

WARNING

Check that the wheels are set straight ahead and that the rotary switch mark (**5**) is correctly positioned opposite the index.



107709

❏ Undo the rotary switch mounting bolt (**6**) .

❏ Press down on (**7**) using a flat-blade screwdriver to release the rotary switch.

❏ Remove part of the steering column controls assembly to disconnect the connectors.

❏ Remove the steering wheel control assembly.

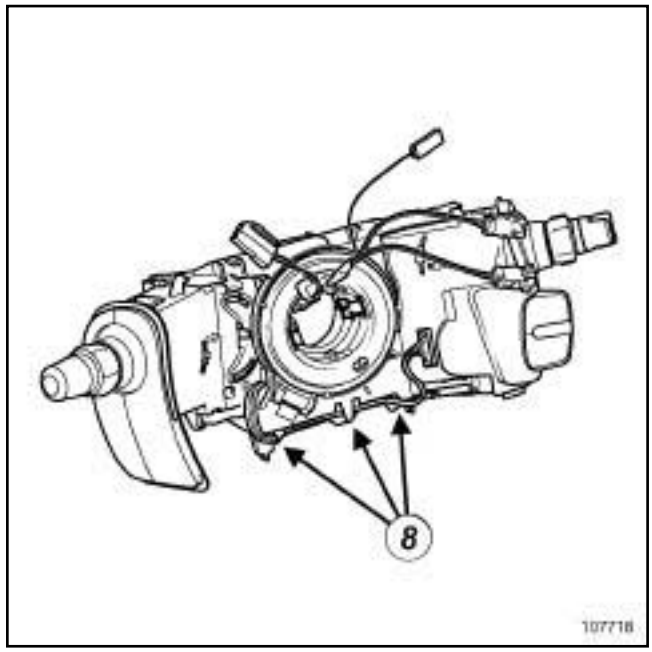
REFITTING

I - REFITTING PREPARATION OPERATION

❏

WARNING

Make sure that the wheels are set straight ahead and that the rotary switch mark is at 0.



107718

❏

WARNING

It is essential to observe the wiring harness routing to prevent it being damaged when the half-shells are refitted.

❏ Position the wiring harness as indicated (**8**) .

II - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connectors.

❏ Position the steering column controls assembly.

❏ Fix the steering column controls assembly into place.

III - FINAL OPERATION

❏ Refit the steering column half-covers.

❏ Fix the half-covers into place.

❏ Refit the steering column trim.

❏ Fix the steering column trim.

❏ Clip the protective strip into place.

❑ Refit:

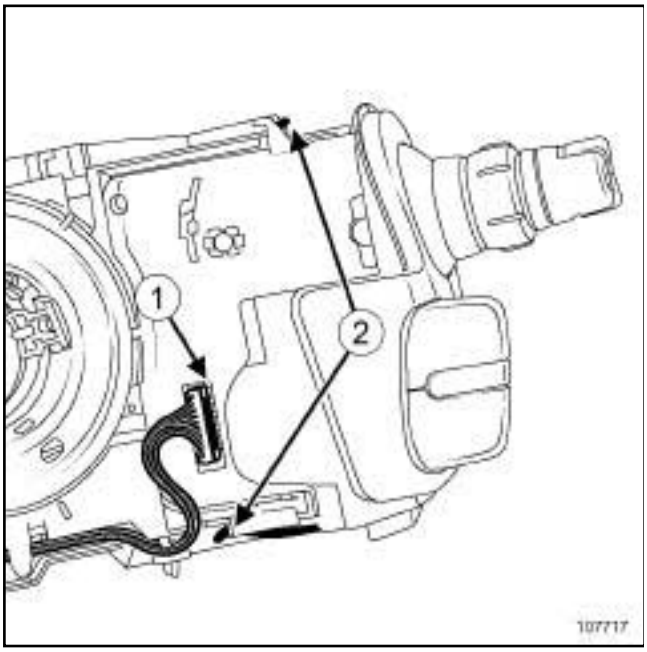
- the dashboard side panel.
- the steering wheel (see **Steering wheel: Removal - Refitting**) ,
- the driver's frontal airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the steering column controls assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



107717

❏ Disconnect the connector (**1**) .

❏ Remove the windscreen wiper switch by pressing down on the clips (**2**) .

> Note:
>
> The remote control satellite and the windscreen wiper switch are one inseparable component.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the windscreen wiper switch onto the rotary switch.

❏ Connect the connector.

II - FINAL OPERATION

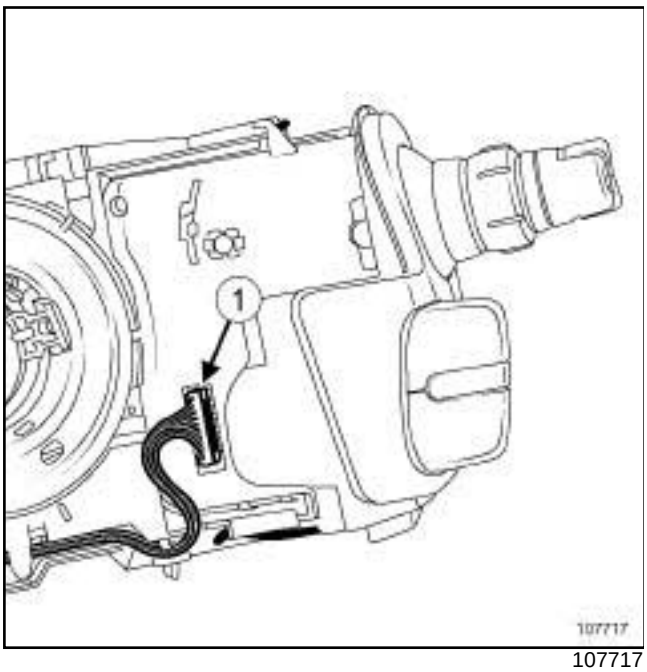
❏ Refit the steering column controls assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the steering column controls assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

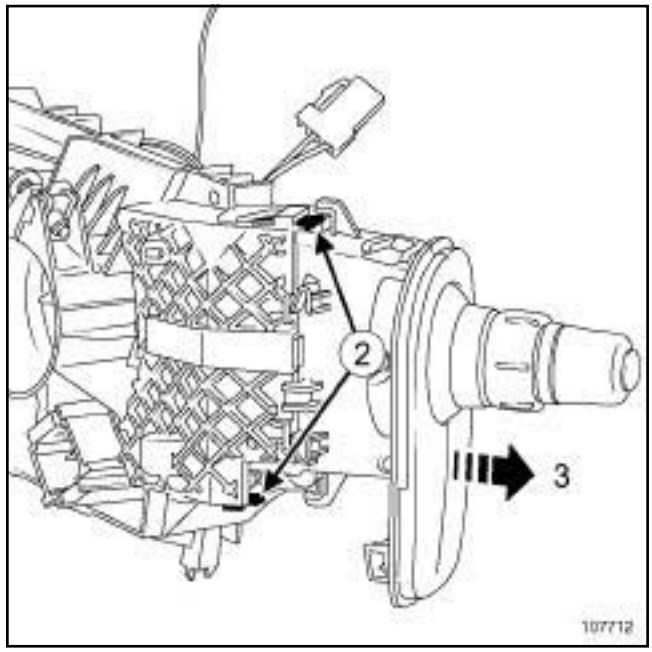
II - OPERATION FOR REMOVAL OF PART CONCERNED



107717

❏ Disconnect the connector (**1**) .

❏ Free the rotary switch wiring harness.

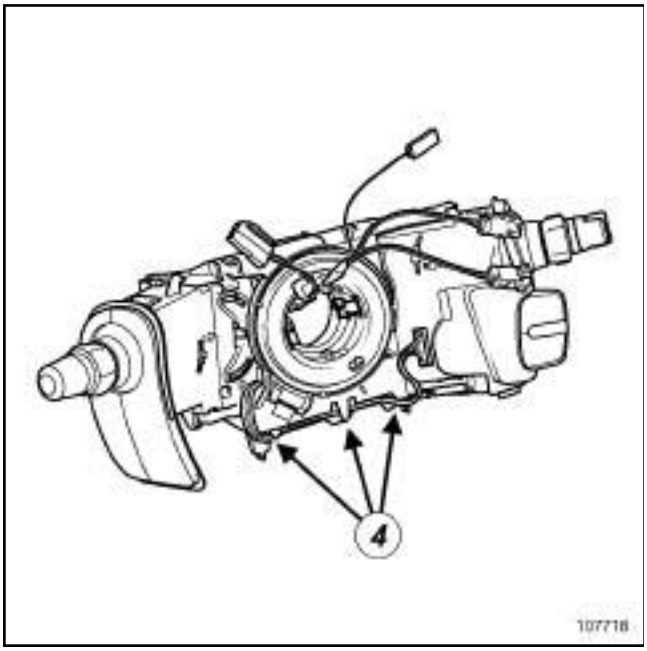


107712

❏ Unclip the light switch (**3**) by pressing down on the clips. (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



107718

❏ Clip the light switch onto the rotary switch.

❏ Connect the connector.

❏ Position the wiring harness as indicated (**4**) .

WARNING

It is essential to observe the harness routing to prevent it from being damaged when the covers are refitted.

II - FINAL OPERATION

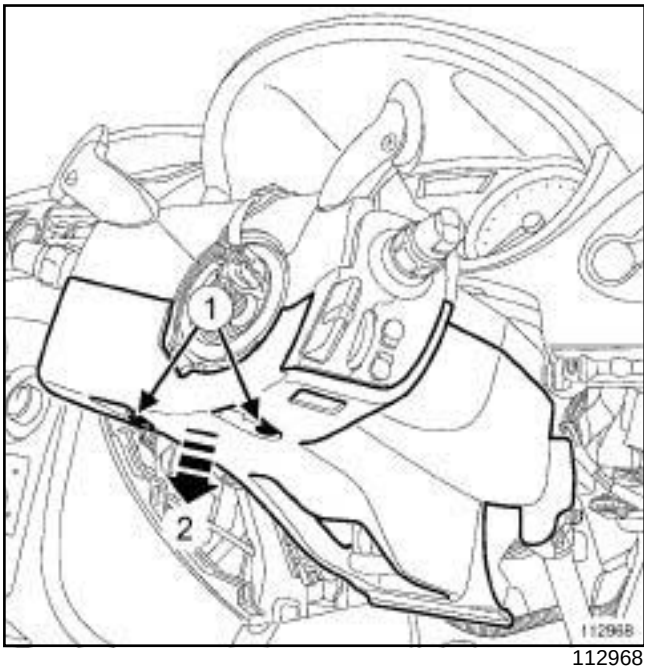
❏ Refit the steering column controls assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove:

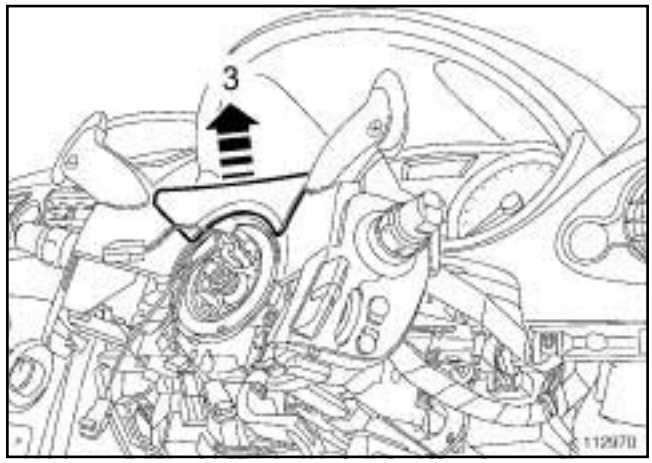
- the driver's airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) ,
- the steering column controls (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .



112968

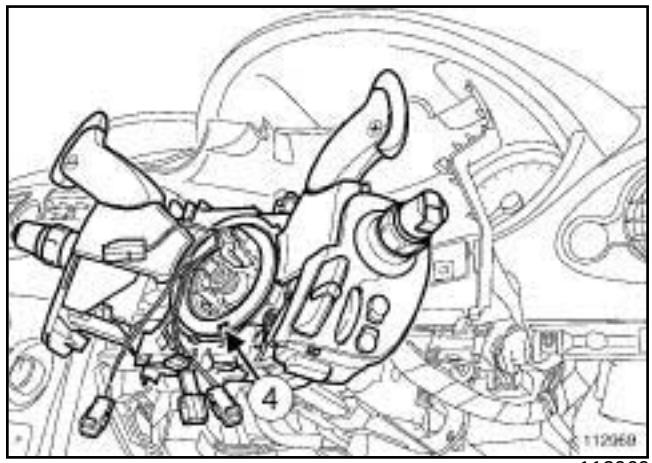
❑ Remove the mounting bolts (**1**) from the shell under the steering wheel.

❑ Unclip the half-shell underneath the lower part of the steering wheel (**2**) .



112970

❑ Unclip upper trim (**3**)

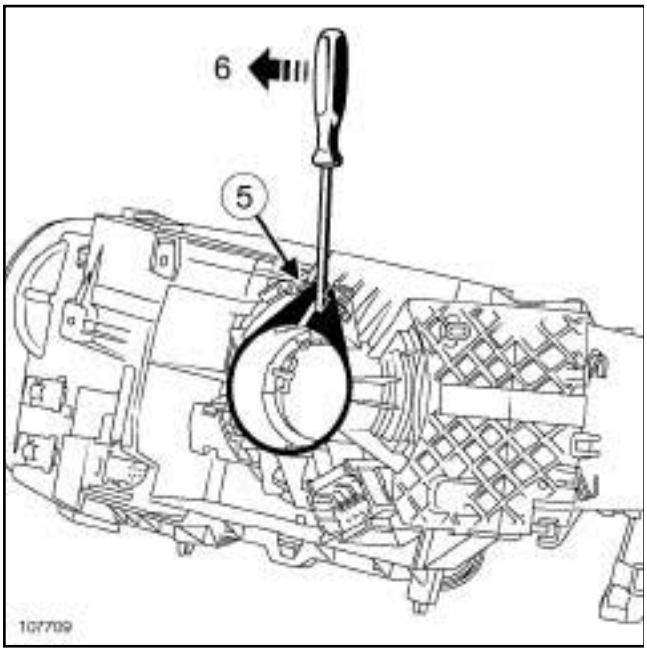


112969

❑

WARNING

Check that the wheels are set straight ahead and that the rotary switch mark (**4**) is correctly positioned opposite the index.

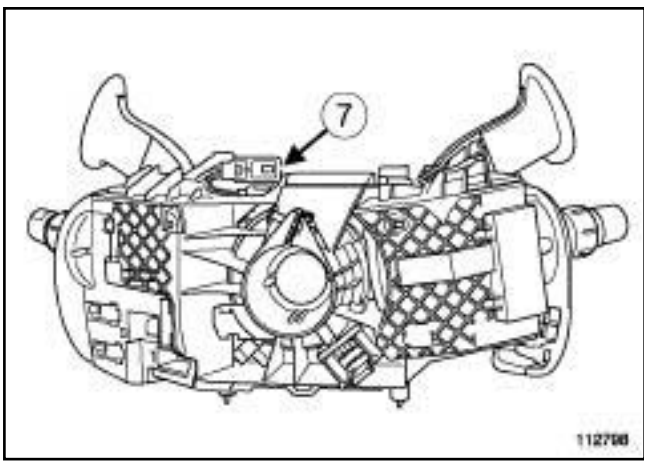


107709

❏ Undo the rotary switch mounting bolt (**5**) .

❏ Press down on (**6**) using a flat-blade screwdriver to release the rotary switch.

❏ Remove part of the steering column controls assembly.

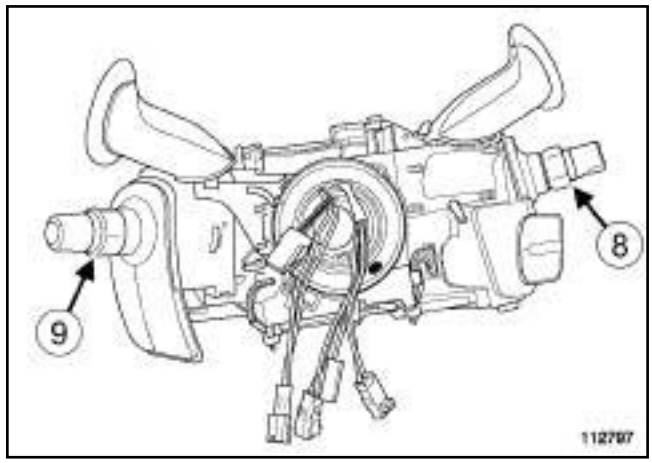


112798

❏ Disconnect:

- the connectors for the steering column controls,
- the gear selector connector on the steering wheel (**7**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



112797

❏ Remove:

- the windscreen wiper switch (**8**) (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) ,
- the signal lighting switch (**9**) (see **84A**, **Control - Signals**, **Signals and lighting switch: Removal - Refitting**, page **84A-9**) .

Note:

The speed selector on the steering wheel cannot be separated from the rotary switch.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the windscreen wiper switch (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) ,
- the signalling light switch (see **84A**, **Control - Signals**, **Signals and lighting switch: Removal - Refitting**, page **84A-9**) ,
- the steering column controls (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) .

II - FINAL OPERATION

❏ Refit:

- the steering wheel (see **Steering wheel: Removal - Refitting**) ,

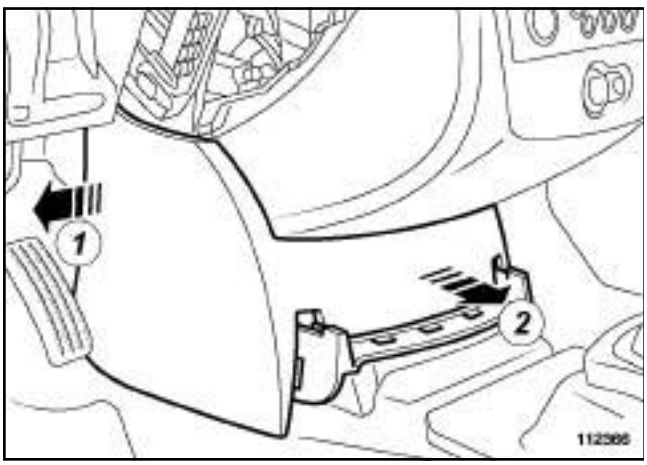
- the driver's airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) .

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).



112366

❏ Unclip the trim at (**1**) and (**2**) .

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

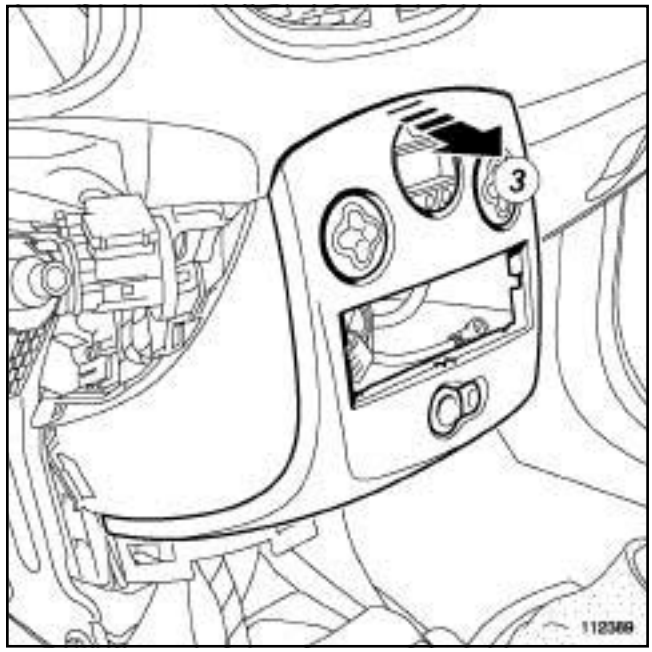
❏ Remove the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❏ Remove the radio navigation system (see **83C**, **Onboard telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

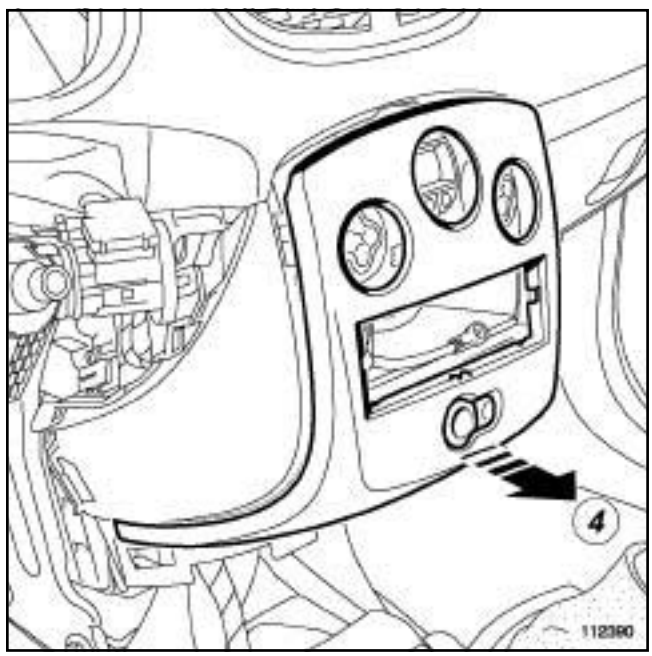
WITHOUT NAVIGATION AID, and VEHICLEWITHOUT RADIO

❏ Unclip the glovebox using the **(Car. 1363)**.



112389

❏ Unclip the centre front panel at (**3**) .

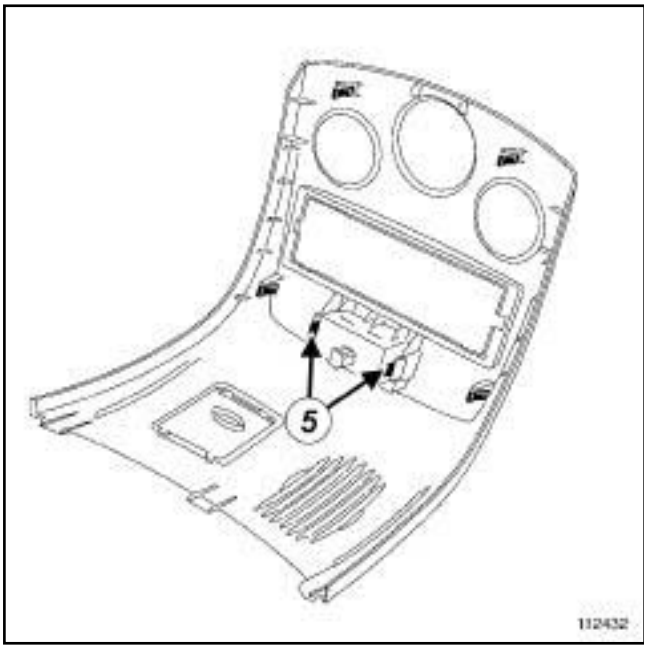


112390

❏ Unclip the centre front panel at (**4**)

❏ Disconnect the connectors.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112432

❏ Unclip the switch by moving clips (**5**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the switch onto the front panel.

II - FINAL OPERATION.

❏ Connect the centre front panel connectors.

❏ Clip in the centre front panel beginning with the lower section.

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 05 or RADIO NO. 06

❏ Refit the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

NAVIGATION AID 1

❏ Refit the radio navigation system (see **83C**, **On-board telematics system**, **Radio navigation: Removal - Refitting**, page **83C-3**) .

WITHOUT NAVIGATION AID, and VEHICLEWITH-OUT RADIO

❏ Clip the glovebox in position.

❏ Clip the trim under the centre front panel.

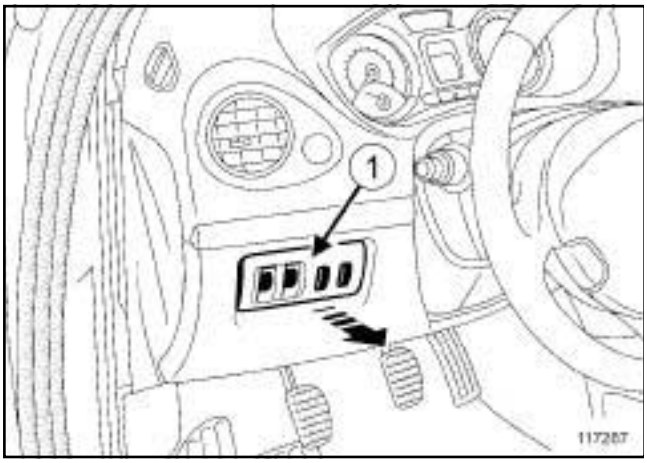
❏ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

ELECTRONIC STABILITY PROGRAM

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION



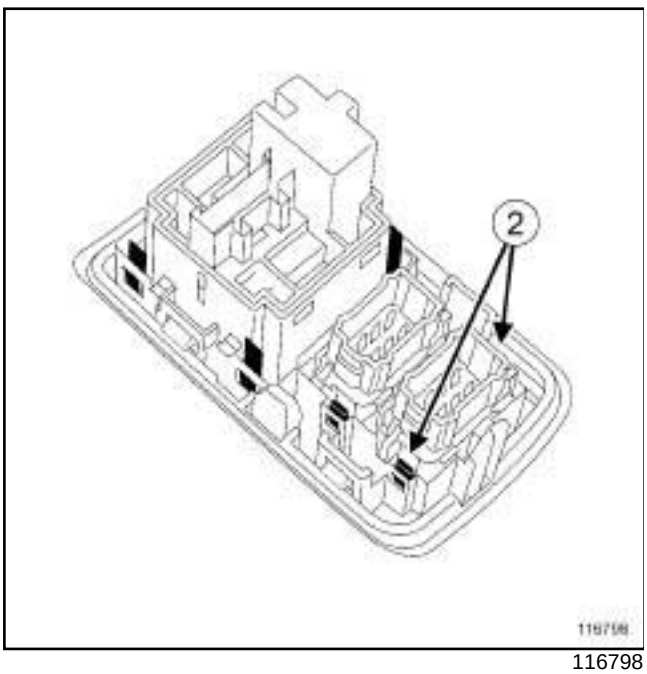
117287

❏ Unclip the control plate (**1**) using the tool **(Car. 1363)**.

❏ Disconnect the connectors.

❏ Remove the plate.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116798

❏ Remove the ESP disabling switch by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the ESP disabling switch onto the switch plate.

❏ Connect the connectors.

II - FINAL OPERATION.

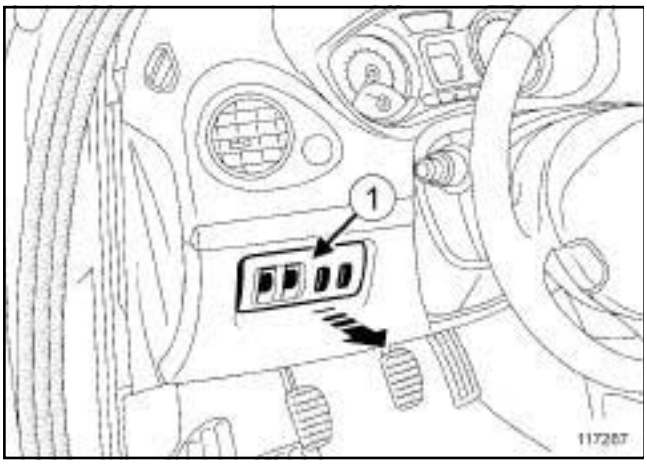
❏ Clip the switch plate onto the lower dashboard trim.

WITHOUT DISCHARGE LAMPS

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION



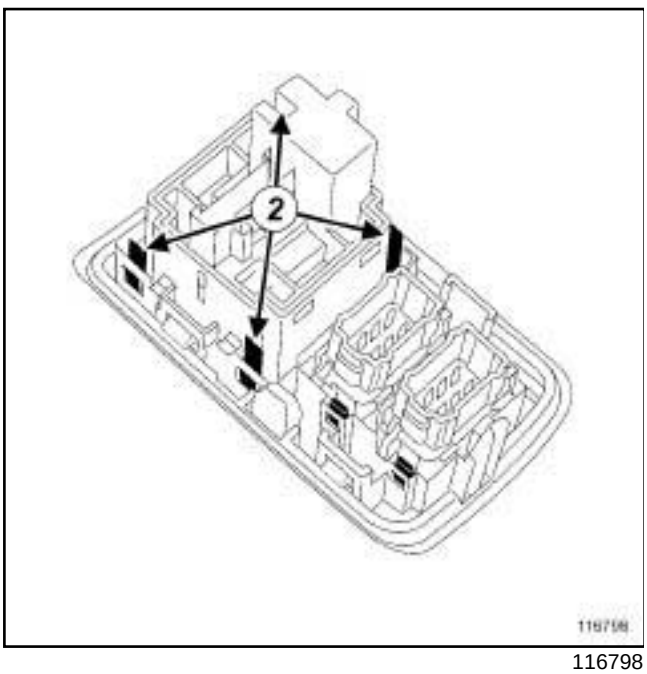
117287

❑ Unclip the switch plate (**1**) using the **(Car. 1363)** tool.

❑ Disconnect the connectors.

❑ Remove the plate.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116798

❑ Remove the headlight remote adjustment control by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the headlight remote adjustment control onto the switch plate.

❑ Connect the connectors.

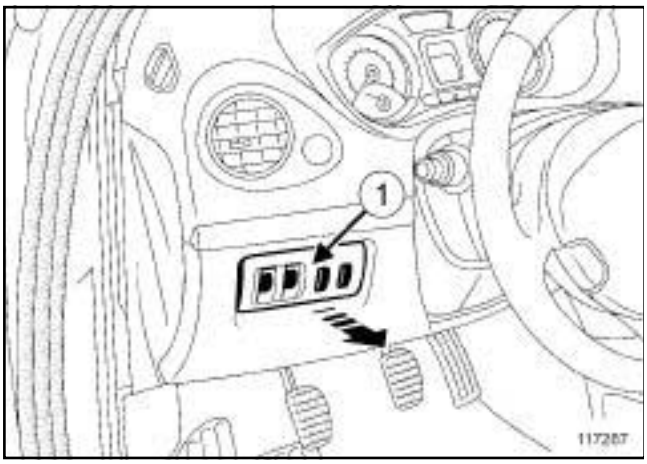
II - FINAL OPERATION.

❑ Clip the switch plate on the dashboard lower trim.

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION



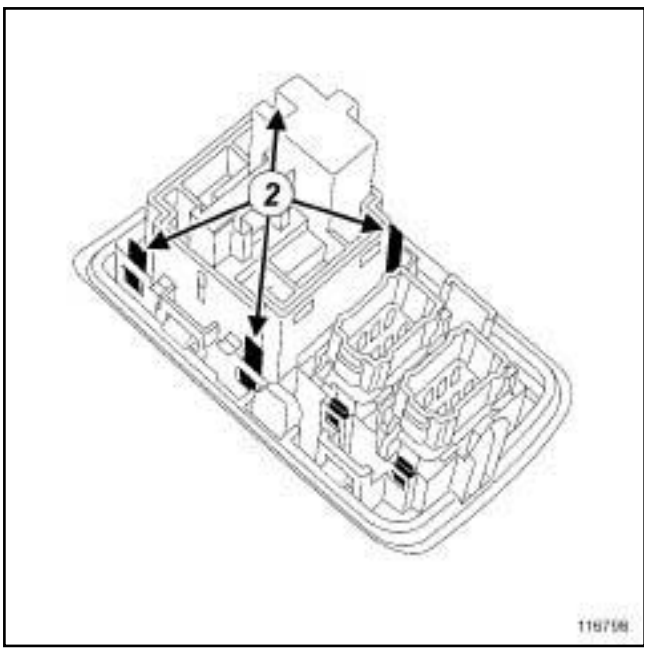
117287

❏ Unclip the switch plate (**1**) using the tool **(Car. 1363)**.

❏ Disconnect the connectors.

❏ Remove the plate.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116798

❏ Remove the lighting dimmer by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the lighting dimmer on the switch plate.

❏ Connect the connectors.

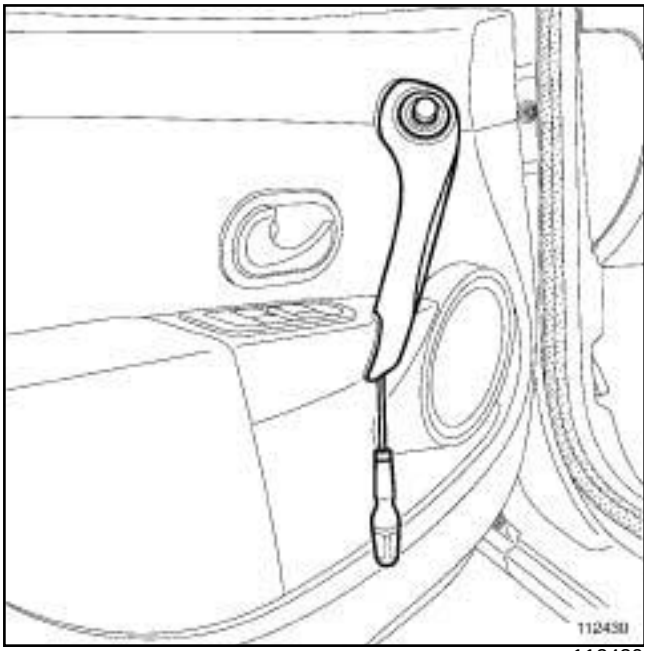
II - FINAL OPERATION.

❏ Clip the switch plate on the dashboard lower trim.

DOOR MIRRORS 02 or DOOR MIRRORS 03

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED


112430

112430

❑ Unclip the interior handle trim using a small flat-blade screwdriver.

❑ Disconnect the connector.



112433

112433

❑ Squeeze the clips (**1**) to unclip the door mirror control switch.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❑ Clip the switch onto the interior handle trim.

❑ Connect the connector.

❑ Clip on the interior handle trim.

The screen printed heated grid on the inner face of the window may have an accidental cut, making the affected part of the circuit useless.

❏ Determine the exact location of the cut using a voltmeter.

Faults such as these can be repaired by using the heated rear screen varnish available at the. **Magasin Pièces de Rechange**

I - DETERMINING THE EXACT LOCATION OF THE CUT USING A VOLTMETER

❏ Switch on the ignition.

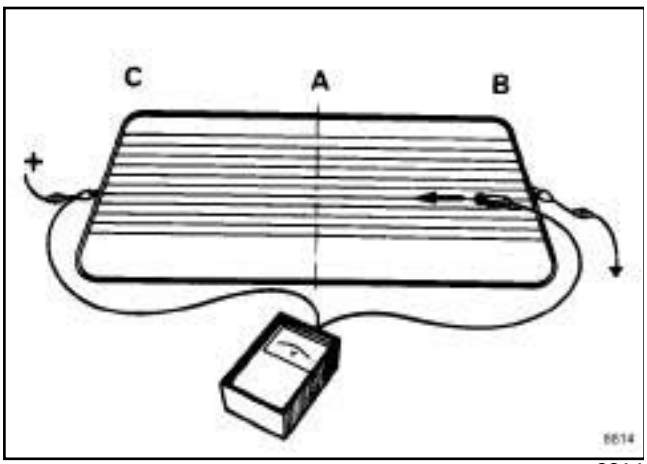
❏ Switch on the heated rear screen supply.

1 - Detection between lines B and A

❏ Connect the + wire of the voltmeter to the + feed terminal of the rear screen.

❏ Put the - wire of the voltmeter on a filament at the - terminal side of the rear screen (line B); the voltage obtained should be roughly equal to that of the battery.

❏ Move the wire - to line A (arrowed line): the voltage gradually drops.



8814

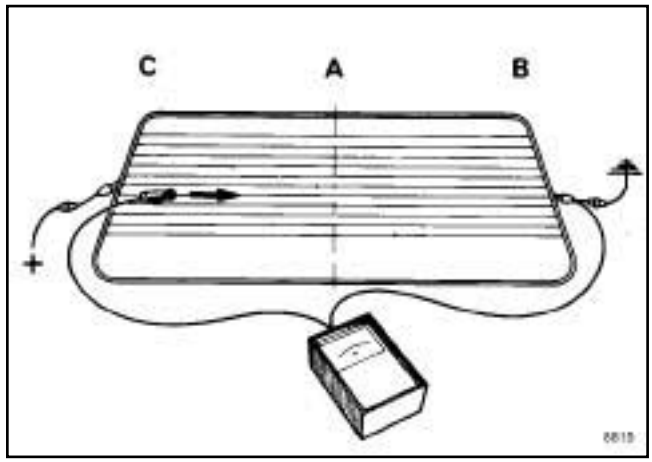
❏ A sudden voltage drop indicates that the filament is cut at that point (carry out this operation for each filament).

2 - Detection between lines C and A

❏ Connect the - wire of the voltmeter to the - terminal of the rear screen.

❏ Put the + wire of the voltmeter on the filament at the + terminal end of the rear screen (line C); the voltage obtained should be roughly equal to battery voltage.

❏ Move the + wire towards line A (arrowed line); the voltage gradually drops.



8815

❏ A sudden voltage drop indicates that the filament is cut at that point (carry out this operation for each filament).

II - REPAIRING THE FILAMENT

❏ Clean the section to be treated to remove all dust or grease, preferably using alcohol or a glass cleaner, and wipe with a clean, dry cloth.

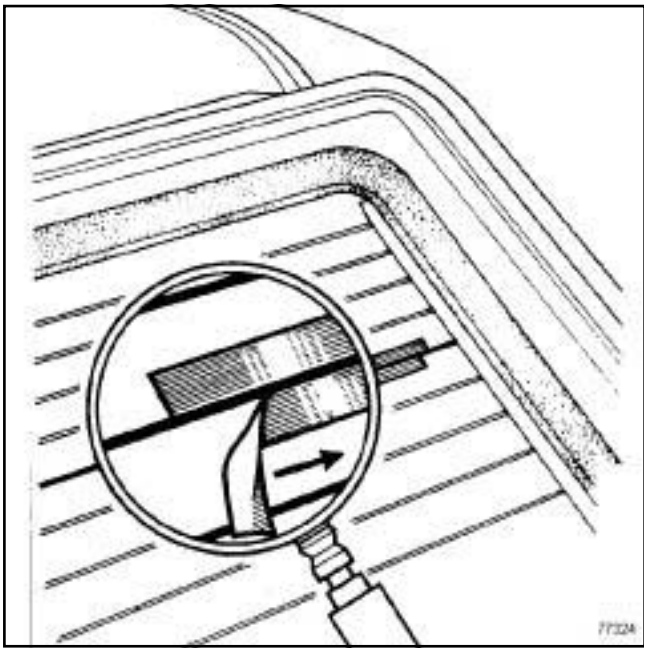
❏ To ensure that the new line is straight, before varnishing, apply adhesive tape to either side of the section to be repaired, leaving the conducting line exposed.

❏ Before using the varnish, shake the bottle to prevent the silver particles settling at the bottom.

Repair

❏ Carry out the repair using a small brush, applying a sufficiently thick layer. If applying successive coats, allow sufficient drying time between each coat and do not repeat the operation more than three times.

❏ If an error is made with the varnish (runs, smudges, etc.), it can be removed using a knife point, but only after several hours, once the product has properly hardened.



77324

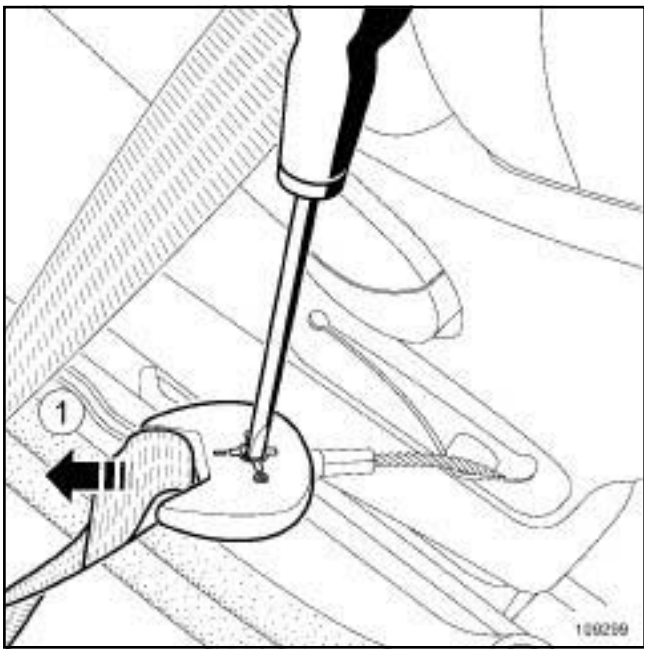
- The adhesive tape used as a guide must not be removed until approximately one hour after application. The tape must be pulled off perpendicularly to the resistance, in the direction of the arrow. When used at an ambient temperature of **20°C**, the varnish is completely dry in three hours. At lower temperatures the drying time is slightly longer.

FRONT SEAT WITH HEATING

REMOVAL

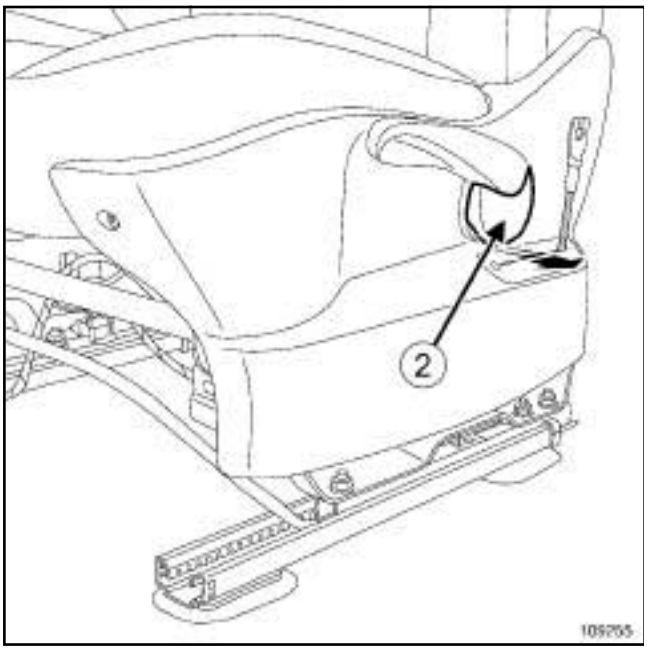
I - REMOVAL PREPARATION OPERATION

❏ Move the seat as far forward as possible.



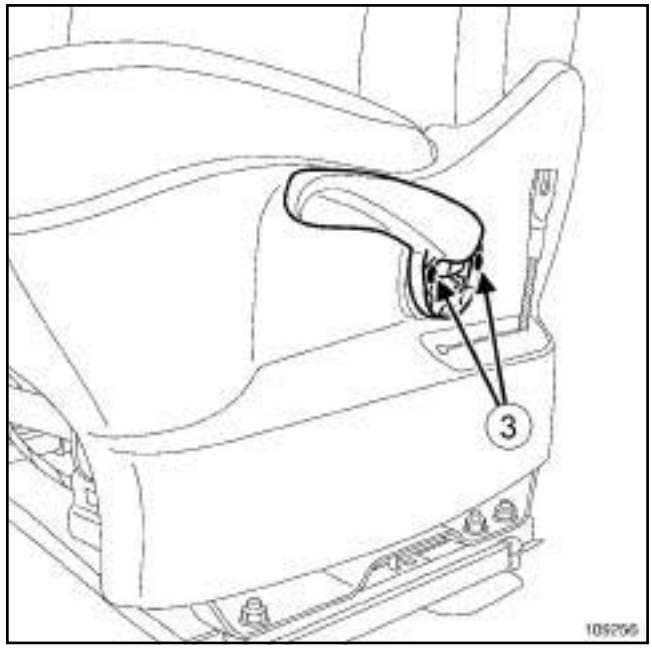
109299

❏ Unclip the seat belt strap (**1**) by turning the bolt a quarter of a turn.



109255

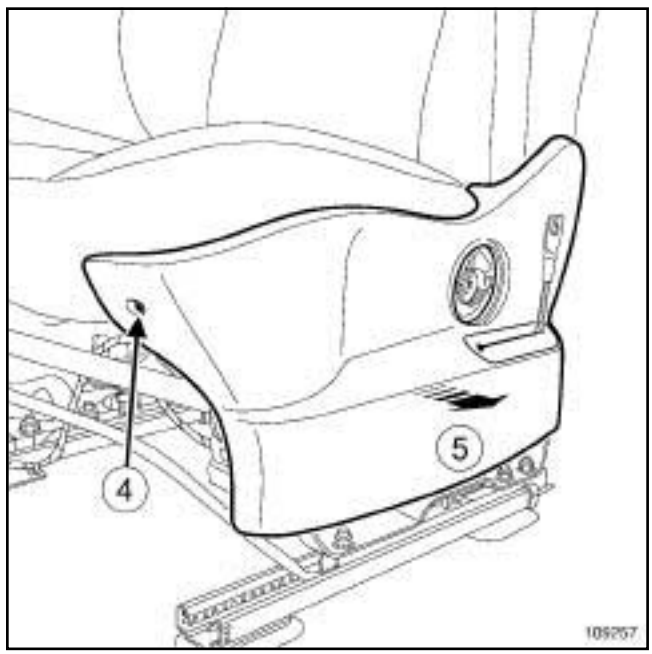
❏ Remove the cover (**2**) from the seat height adjustment lever.



109256

❏ Remove:

- the seat base height adjustment lever bolts (**3**) ,
- the seat base height adjustment lever.

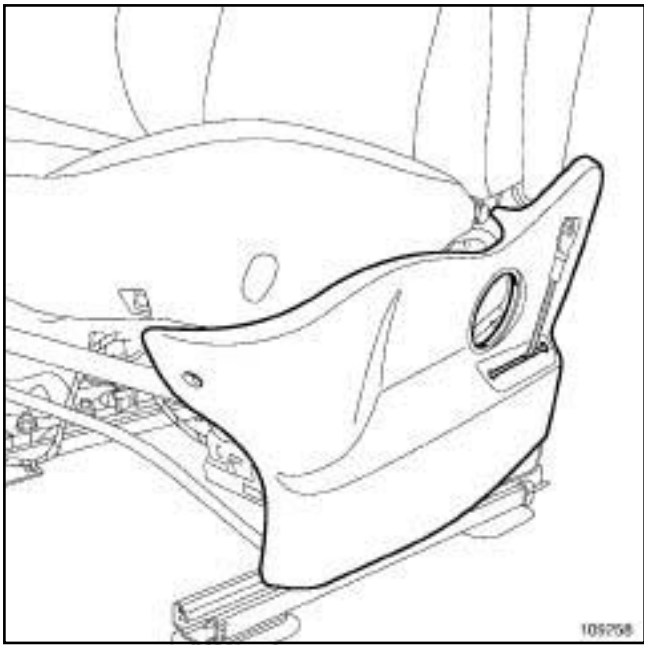


109257

❏ Remove the seat base cover bolt (**4**) .

❏ Unclip the front section of the seat housing side panel (**5**) .

FRONT SEAT WITH HEATING

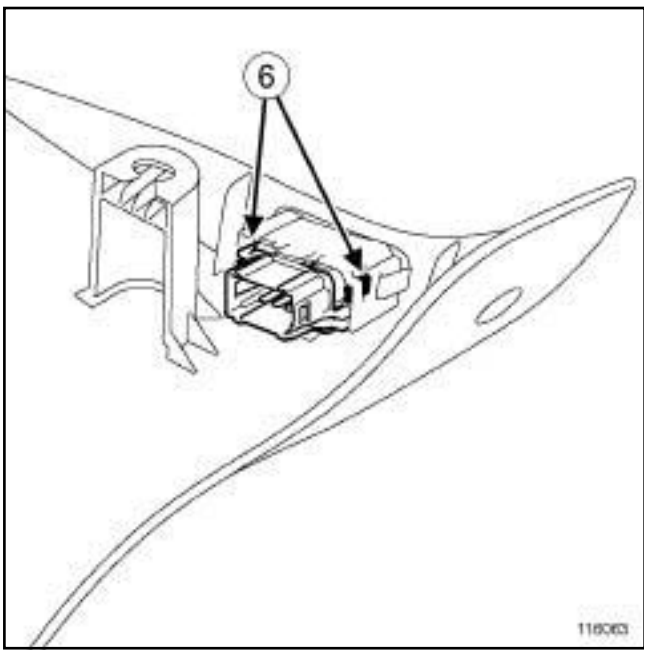

109258

❏ Unclip the rear section of the seat cover.

❏ Disconnect the connectors.

❏ Remove the seat base cover.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116063

❏ Unclip the heating pad switch by pressing on the clips (**6**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the heating pad switch onto the seat housing panel.

II - FINAL OPERATION.

❏ Connect the seat housing panel connectors.

❏ Clip on:

- the rear section of the seat cover,
- the front section of the seat cover.

❏ Refit:

- the seat cover bolt,
- the seat base height adjustment lever,
- the seat base height adjustment lever bolts,
- the seat base height adjustment lever cover.

❏ Clip on the seat belt strap.

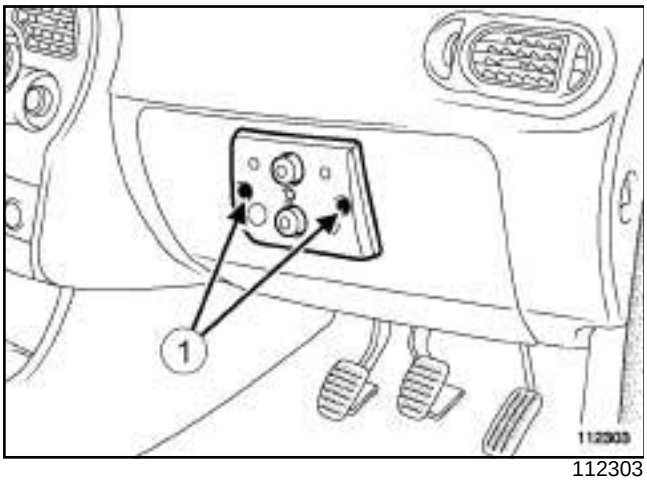
SCHOOL VEHICLE

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



112303

❏ Remove:

- the bolts (**1**) from the driving school repeater control electrical unit,
- the driving school repeater control electrical unit.

❏ Disconnect the driving school repeater control electrical unit connectors.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the driving school repeater electrical control unit connectors.

❏ Refit:

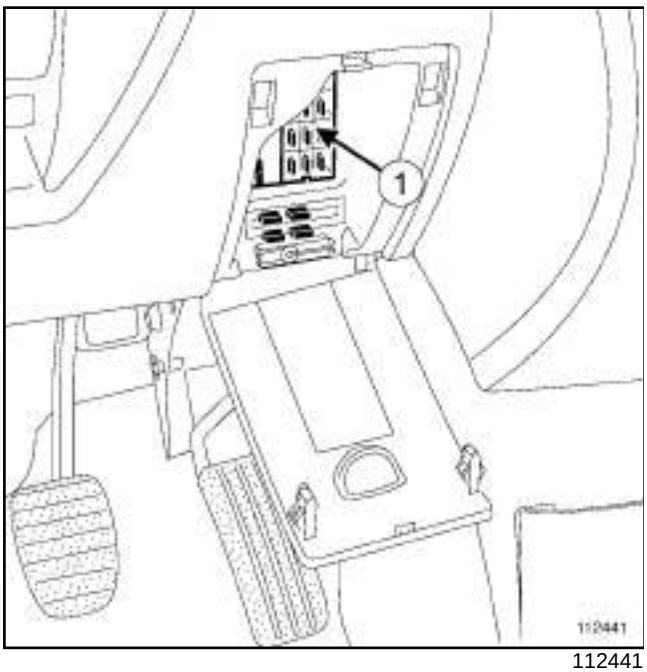
- the driving school repeater electrical control unit,
- the driving school repeater electrical control unit bolts.

II - FINAL OPERATION.

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

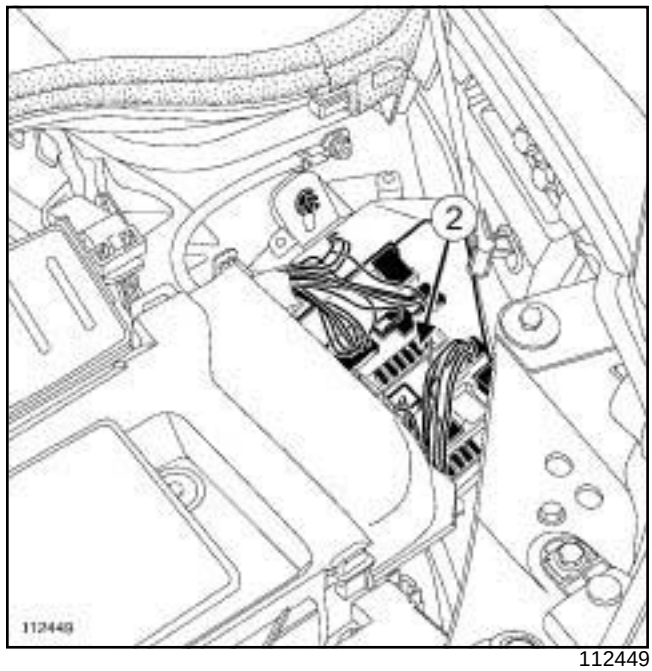
No.	Description
(1)	Passenger compartment fuse and relay box
(2)	Protection and Switching Unit
(3)	Power supply fuse board
(4)	UCH
(5)	Rain sensor
(6)	Wiper switch
(7)	Windscreen wiper motor
(8)	Rear screen wiper motor
(9)	Washer pump
(10)	Headlight washer pump

I - PASSENGER COMPARTMENT FUSE AND RELAY BOX



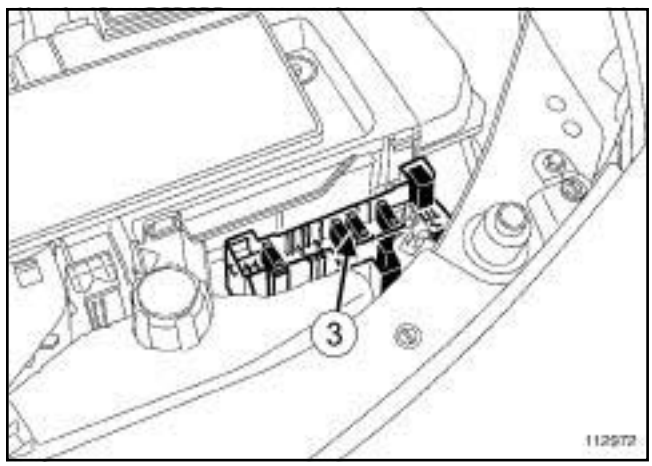
112441

II - PROTECTION AND SWITCHING UNIT



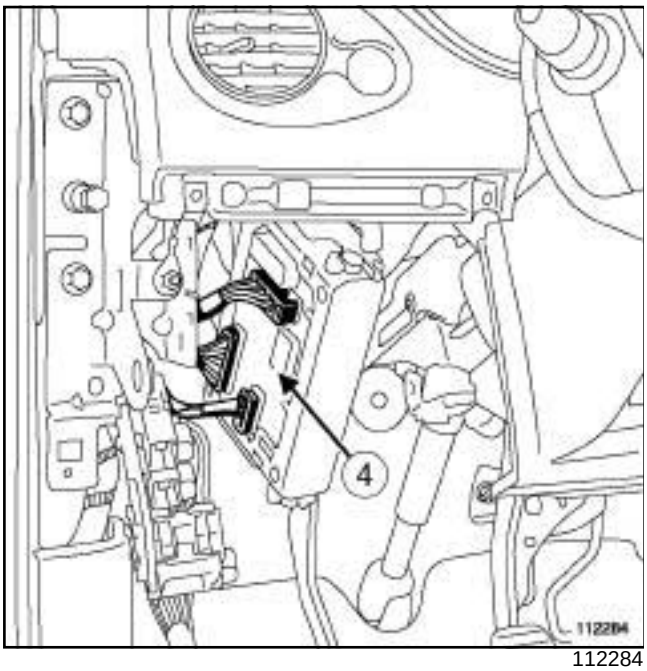
112449

III - POWER SUPPLY FUSE BOARD



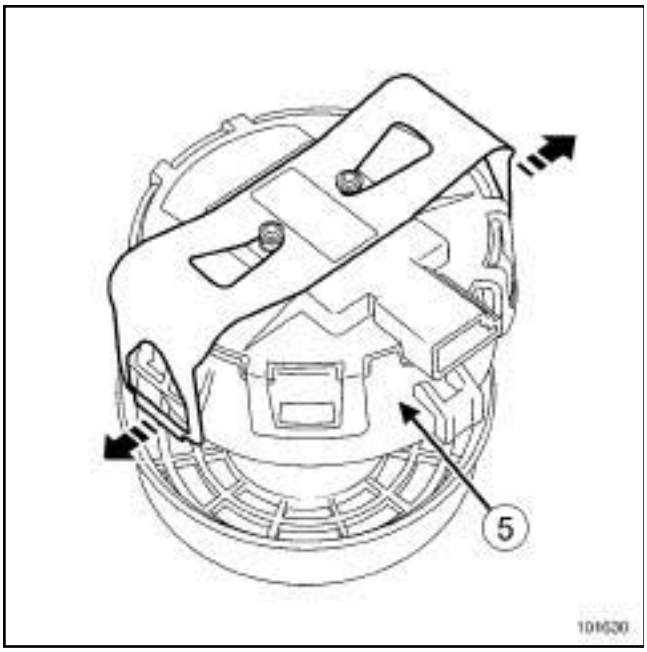
112972

IV - UCH



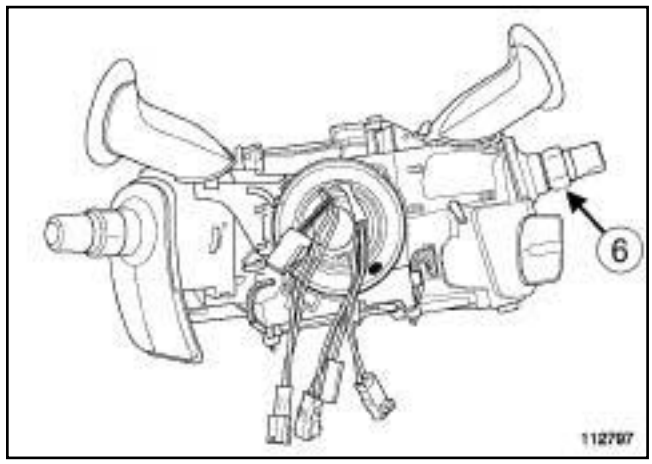
112284

V - RAIN AND LIGHT SENSOR



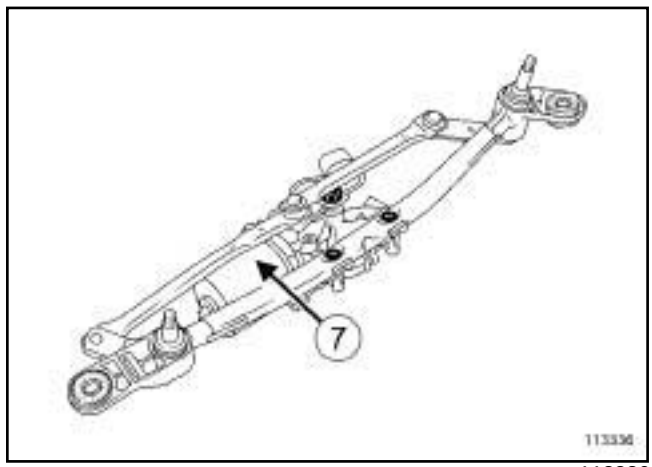
101630

VI - WIPER SWITCH



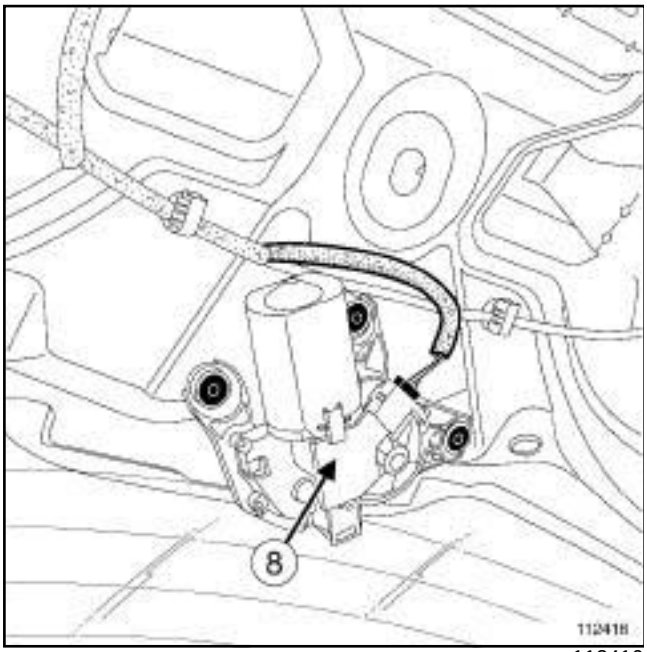
112797

VII - WINDSCREEN WIPER MOTOR



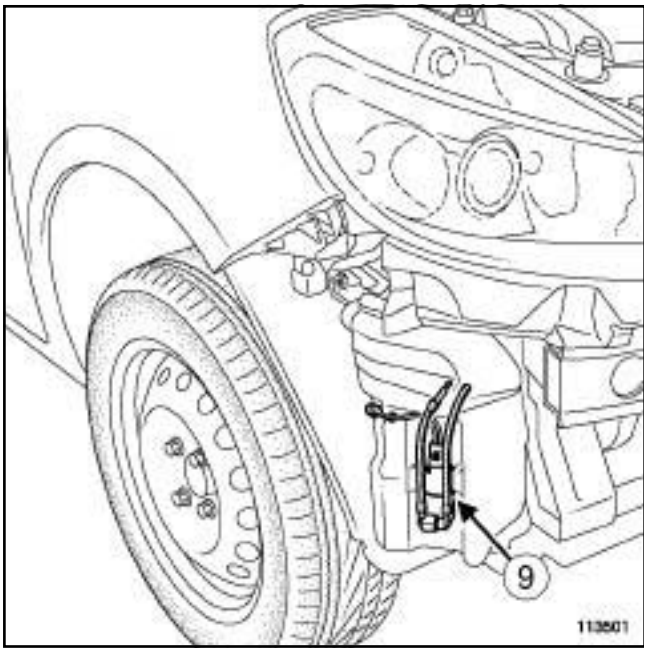
113336

VIII - REAR SCREEN WIPER MOTOR



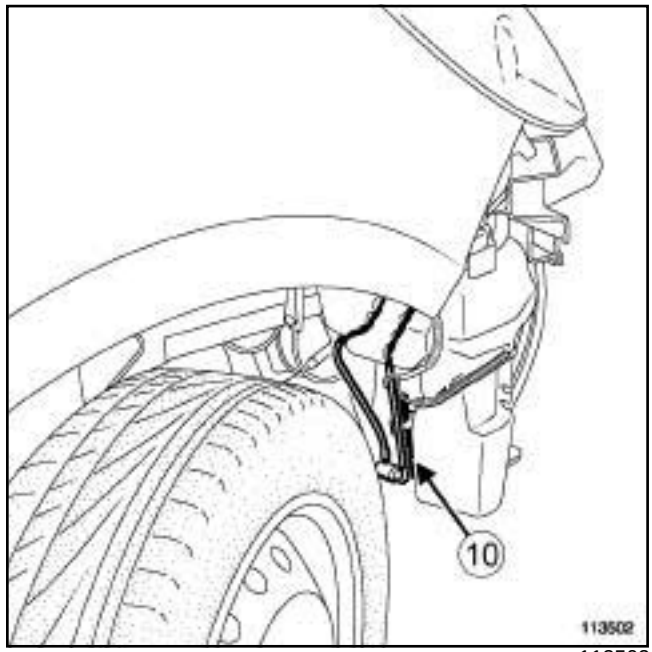
112416

IX - WASHER PUMP



113501

X - HEADLIGHT WASHER PUMP



113502

I - AUTOMATIC OPERATION

vehicles may be fitted with a wiper stalk with a sensitivity adjustment ring for the rain sensor.

In this instance the vehicles have:

- a sensor sensitivity ring on the wipers stalk,

- rain and light sensors.

To operate the system, move the wiper stalk to the « intermittent » position.

If switching the ignition off, reposition the stalk at « stop » then « intermittent » .

Note:

Vehicles not fitted with a rain sensor have an intermittent automatic system with a timing modification ring.

II - OPERATING NOTES

If there is too much stress on the wiper arms (e.g.: at high speed), the Protection and Switching unit automatically commands wiping at a lower speed.

If the wiper mechanism is jammed (e.g.: icy windscreen), the protection and switching unit automatically cuts the supply to the motor.

If the windscreen wipers have been requested (by the stalk or by the rain sensor), changing to reverse gear will activate the rear wiper.

Any movement of the wiper stalk overrides and cancels any UCH commands from the Protection and Switching Unit.

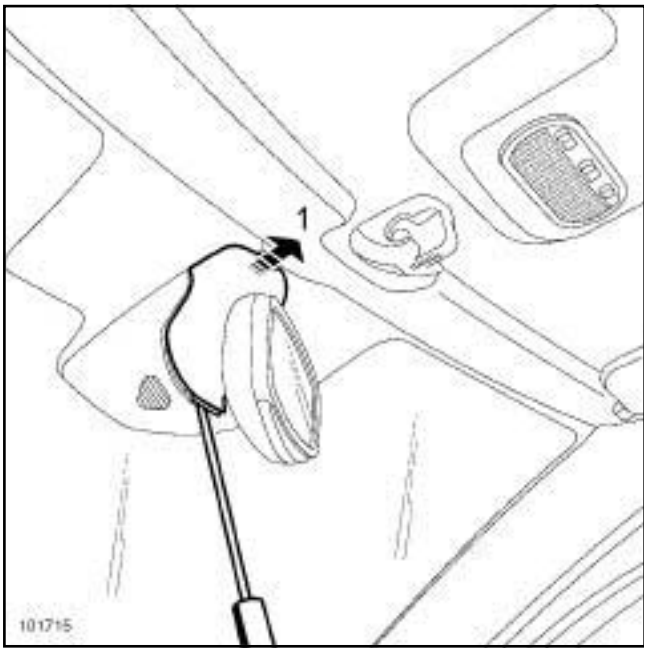
The intermittent rear wiper system is governed by the vehicle speed.

If the UCH does not detect any signal from the steering column control, the wiper speed selected before the fault is maintained.

The UCH has configurations which are specific to the washing - wiping function (see **Fault finding - Configurations and programming) (MR 394, 87B, Connection unit)**.

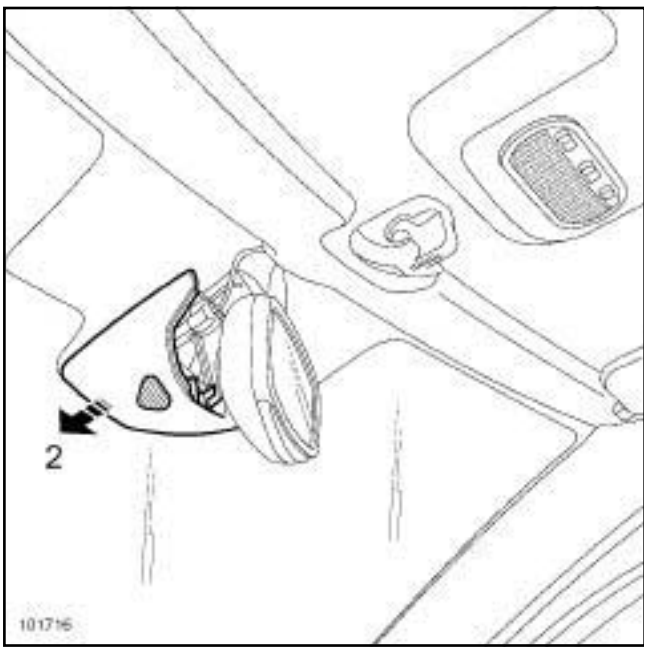
REMOVAL

I - REMOVAL PREPARATION OPERATION



101715

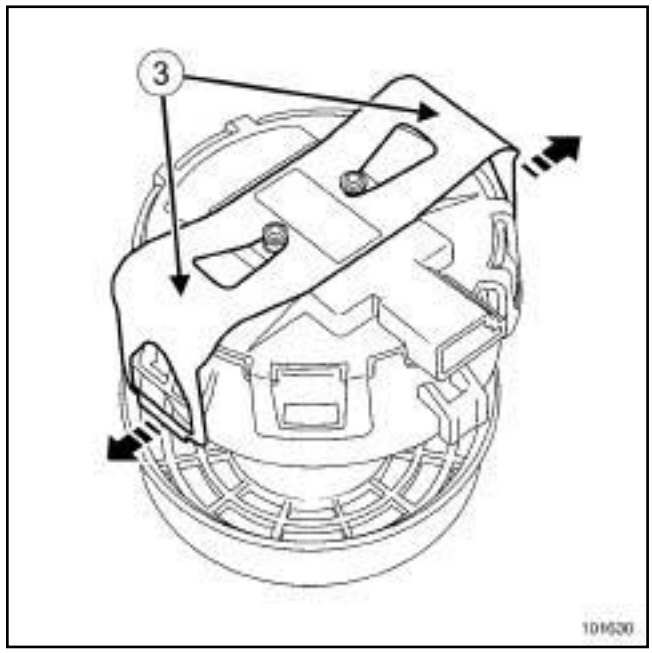
❏ Unclip the upper casing using a flat-blade screwdriver (**1**) .



101716

❏ Remove the lower cover (**2**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



101630

❏ Disconnect the connector.

❏ Unclip the two side clips (**3**) from the detector using a small screwdriver.

REFITTING

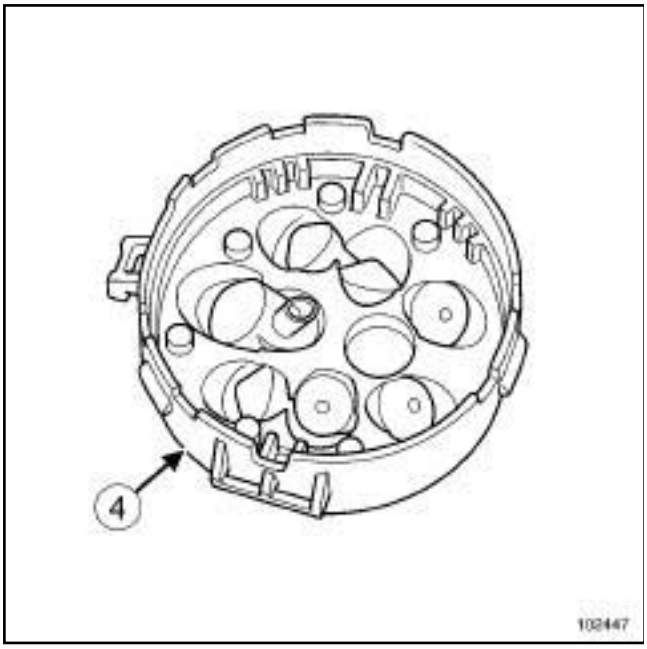
I - REFITTING PREPARATION OPERATION

❏ Clean the windscreen using a wooden spatula (so as not to scratch the surface).

WARNING

Refit the rain sensor in perfectly clean conditions: any dust or fibres could cause a fault.

Do not touch the electronic part of the sensor. Fit the sensor to the vehicle immediately after removing it from its packaging.



102447

❑

Note:

When replacing the windscreen (and keeping the rain and light sensor), it is essential to replace the sensor's adhesive base (**4**) .

The adhesive base is available separately from the Parts Department.

II - REFITTING OPERATION FOR PART CONCERNED

❑ Position the sensor on the support.

❑ Clip the sensor on the support.

❑ Connect the connector.

III - FINAL OPERATION.

❑ Clip in place the interior rear-view mirror casings.

❑ Carry out an operating test:

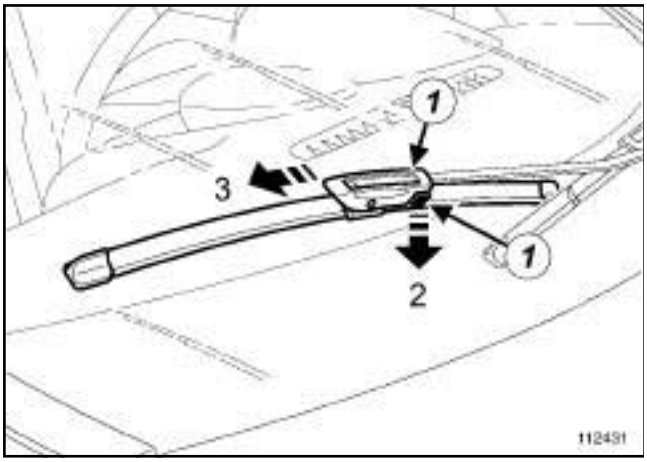
- select automatic wiping,

- spray water droplets onto the windscreen within the sensor's detection area,

- check that the automatic wiping function is operating correctly.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



112431

❏ Squeeze the clips (**1**) and move downwards simultaneously (**2**) .

❏ Remove the blade (**3**) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Clip the blade onto the wiper arm.

Special tooling required	
Ele. 1294-01	Tool for removing wiper arms.

Tightening torques ▽	
wiper arm nuts	**21 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

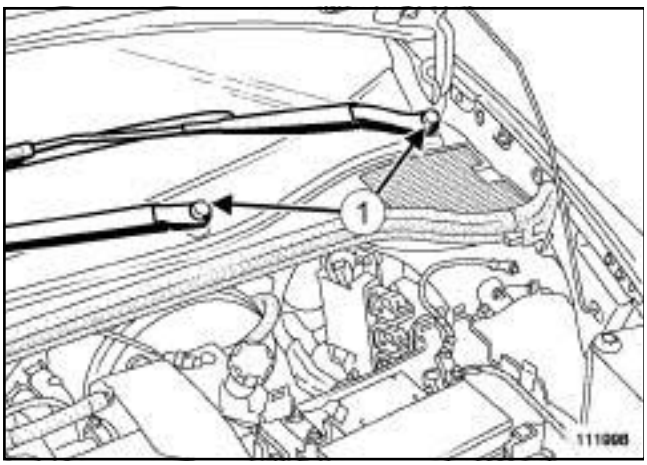
❏ Operate the wiper switch to set the wiper motor in the park position.

- move the switch from 0 to 1.
- move the switch from 1 to 0.

❏ Open the cover.

❏ Mark the position of the wiper arms.

II - OPERATION FOR REMOVAL OF PART CONCERNED



111998

❏ Remove:

- the nut covers (**1**) ,
- the wiper arm nuts (**1**) ,
- the wiper arms using the **(Ele. 1294-01)**

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the wiper arms in the position marked before removal,
- the wiper arm nuts.

❏ Torque tighten the **wiper arm nuts (21 Nm)**.

II - FINAL OPERATION.

❏ Refit the nut covers.

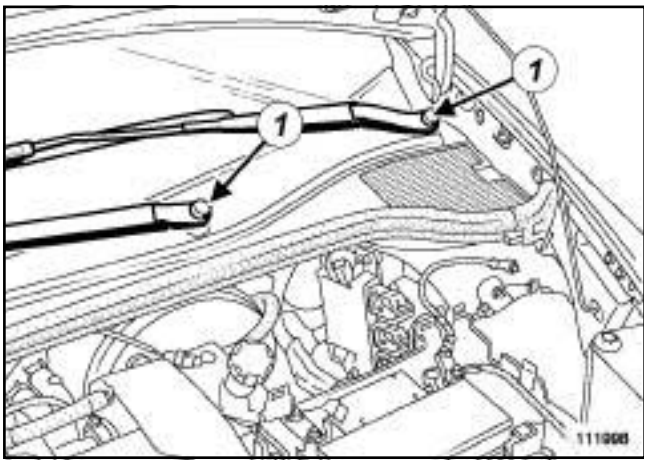
❏ Test that the wipers operate correctly.

❏ Close the bonnet.

Special tooling required	
Ele. 1294-01	Tool for removing wiper arms.

Tightening torques ▽	
wiper arm mounting nuts	**21 N.m**

REMOVAL



111998

❏ Move the wiper switch to set the wiper motor in the park position.

- move the switch from status 0 to 1.
- move the switch from 1 to 0.

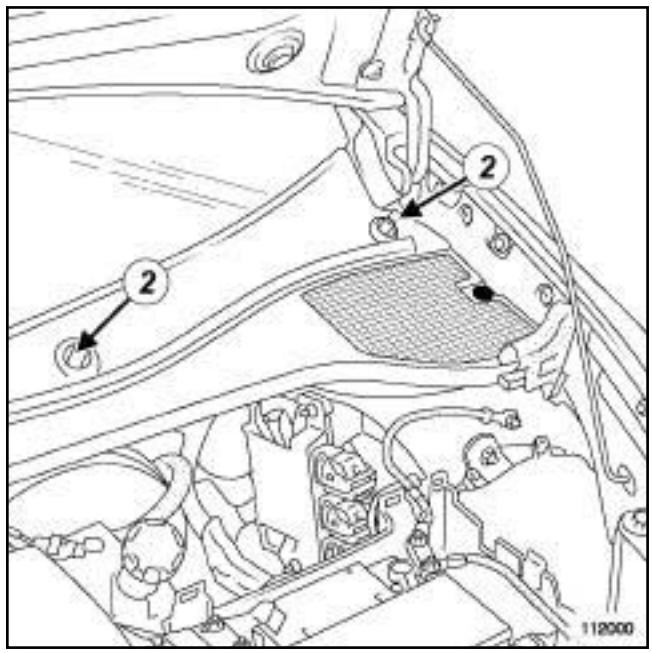
❏ Lift the bonnet.

❏ Note the position of the wiper arms.

❏ Remove:

- the covers (**1**) ,
- the wiper arm mounting nuts (**1**) ,
- the wiper arms using the **(Ele. 1294-01)**.

REFITTING



112000

❏ Refit the wiper arms in the position marked before removal.

❏ Torque tighten the **wiper arm mounting nuts (21 N.m)** (**2**) .

❏ Refit the covers (**2**) .

❏ Test that the wipers operate correctly.

Tightening torques ▽	
mechanism bolts	**8 Nm**
offset mechanism bolts	**8 Nm**
mechanism bolts	**8 Nm**
motor shaft linkage nut	**18 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

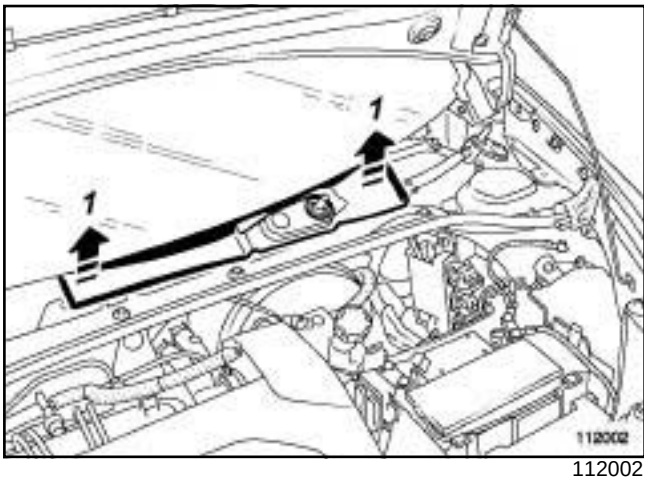
❏ Remove the wiper arms (see **85A**, **Wiping - Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-8**) .

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment).

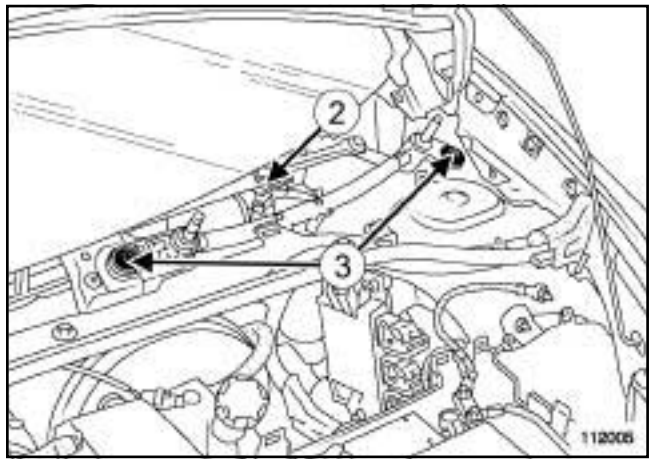
II - OPERATION FOR REMOVAL OF PART CONCERNED

LEFT-HAND DRIVE



112002

❏ Unclip the trim (**1**) under the scuttle panel grille.



112005

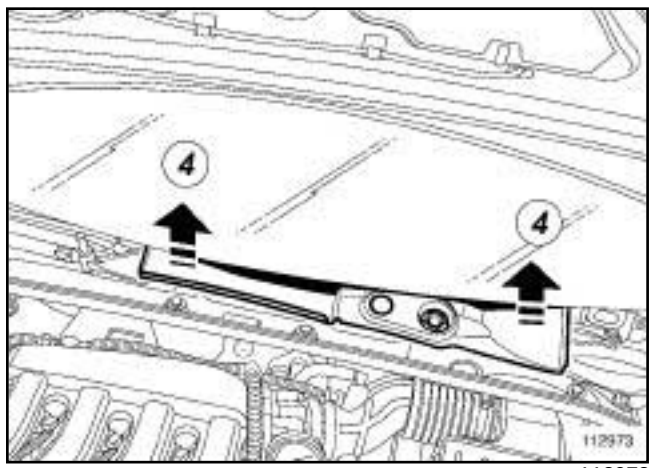
❏ Note the position of the motor shaft linkage (**2**) in relation to the mechanism.

❏ Remove the wiper mechanism bolts (**3**) .

❏ Partially remove the mechanism and disconnect the connector.

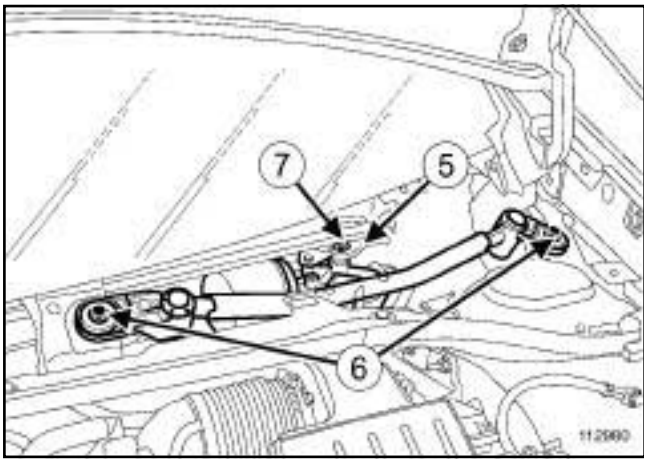
❏ Remove the mechanism.

RIGHT-HAND DRIVE



112973

❏ Unclip the trim (**4**) under the scuttle panel grille.



112980

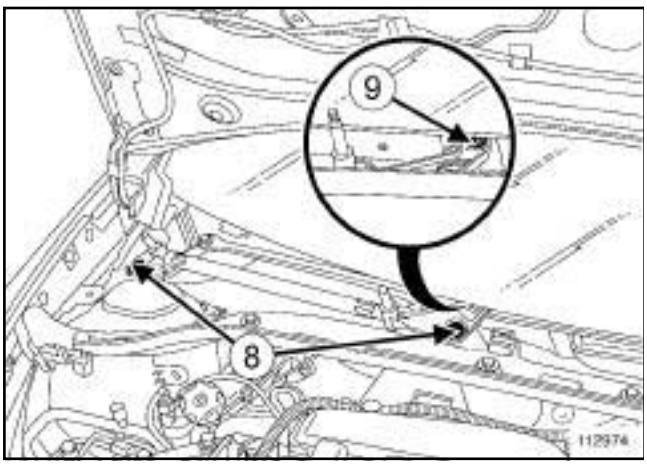
❏ Note the position of the motor shaft linkage (**5**) in relation to the mechanism.

❏ Remove:

- the motor shaft linkage nut (**7**) ,
- the mechanism bolts (**6**) .

❏ Partially remove the mechanism and disconnect the connector.

❏ Remove the mechanism.



112974

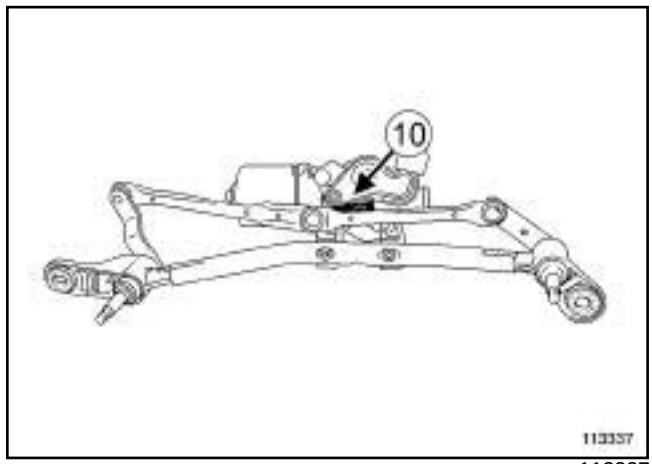
❏ Remove the offset mechanism bolts (**8**) and (**9**) .

❏ Remove the linkage.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

LEFT-HAND DRIVE



113337

❏ Check that the motor shaft linkage (**10**) is correctly positioned.

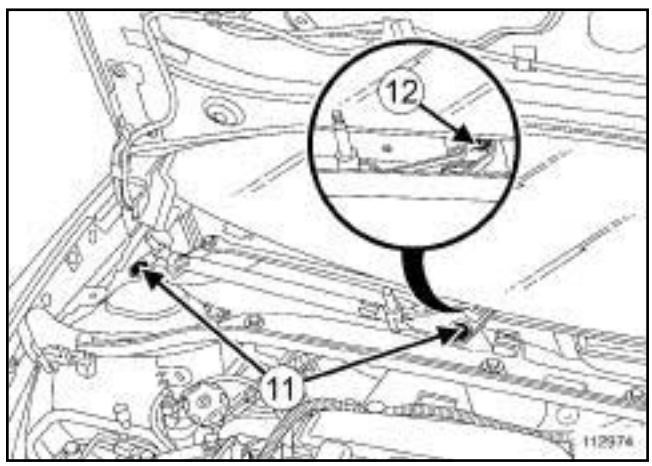
❏ Connect the connector.

❏ Refit the mechanism.

❏ Torque tighten the **mechanism bolts (8 Nm)**.

❏ Refit the trim.

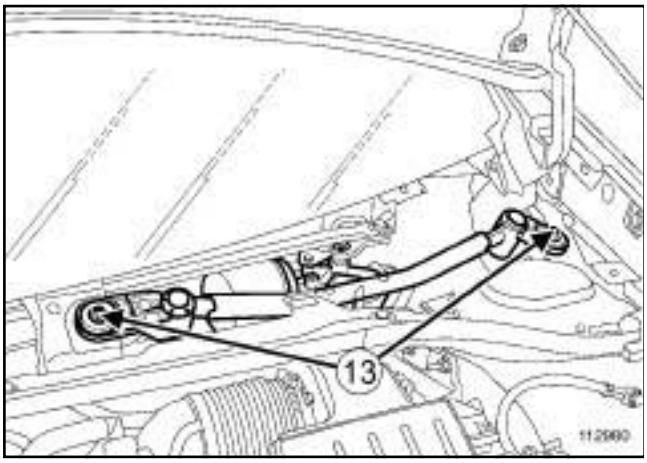
RIGHT-HAND DRIVE



112974

❏ Refit the offset mechanism.

❏ Torque tighten the **offset mechanism bolts (8 Nm)** (**11**) and (**12**) .

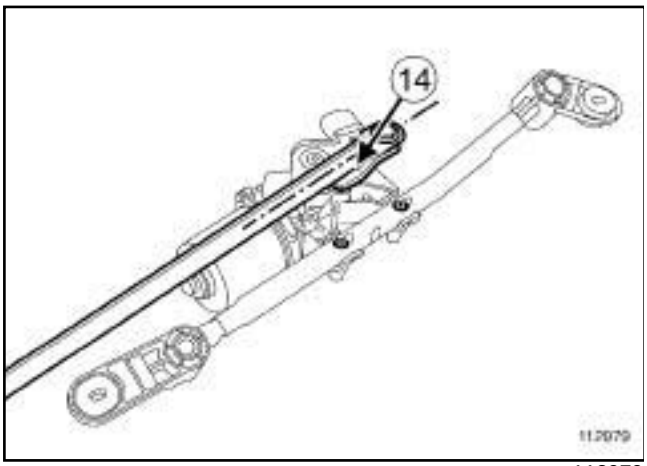


112980

❏ Connect the connector.

❏ Refit the mechanism.

❏ Torque tighten the **mechanism bolts (8 Nm)** (**13**) .



112979

❏ Refit the motor shaft linkage (**14**) in the position noted before removal.

❏ Torque tighten the **motor shaft linkage nut (18 Nm)**.

❏ Refit the trim under the scuttle panel grille.

FINAL OPERATION.

❏ Refit the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (MR 393, 56A, Exterior equipment).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Operate the wiper switch to set the wiper motor in the park position.

- move the switch from status 0 to 1.
- move the switch from 1 to 0.

❏ Refit the wiper arm (see **85A**, **Wiping - Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-8**) .

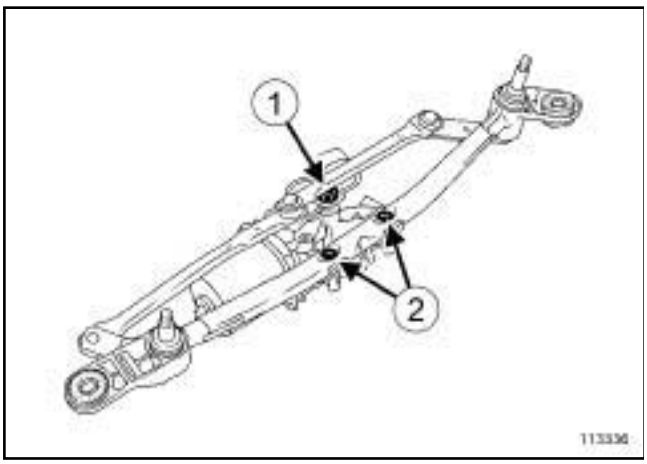
Tightening torques ▽	
motor bolts	**9 N.m**
motor shaft linkage nut	**18 Nm**
motor bolts	**9 N.m**
motor shaft linkage nut	**18 Nm**

I - REMOVAL PREPARATION OPERATION

❑ Remove the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

LEFT-HAND DRIVE



113336

❑

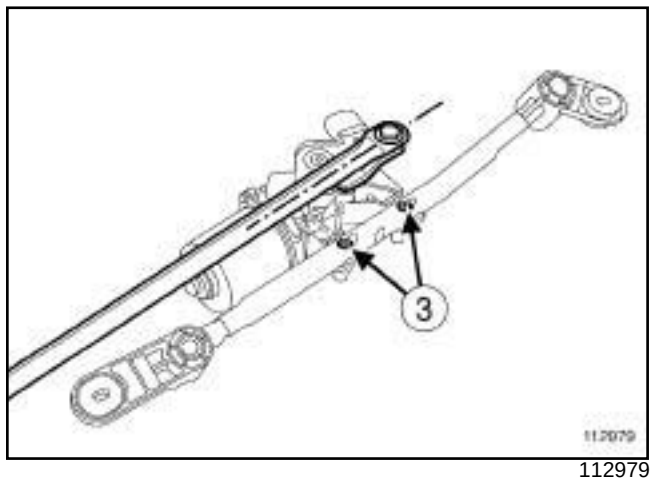
Note:

Mark the position of the motor shaft linkage in relation to the mechanism before removing it.

❑ Remove:

- the motor bolts (**1**) and (**2**) on the mechanism,
- the motor.

RIGHT-HAND DRIVE



112979

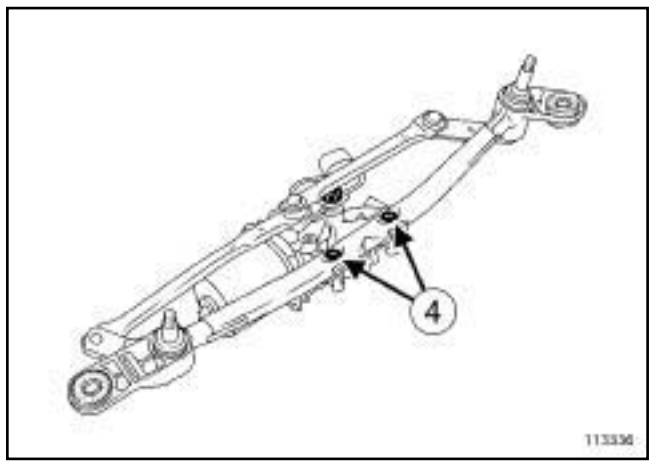
❑ Remove:

- the motor bolts (**3**) on the mechanism,
- the motor.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

LEFT-HAND DRIVE

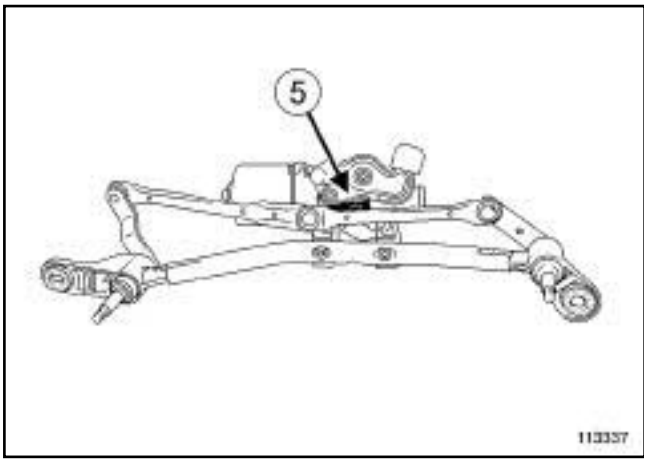


113336

❑ refit:

- the motor.
- the bolts (**4**) .

❑ Torque tighten the **motor bolts (9 N.m)** (**4**) .

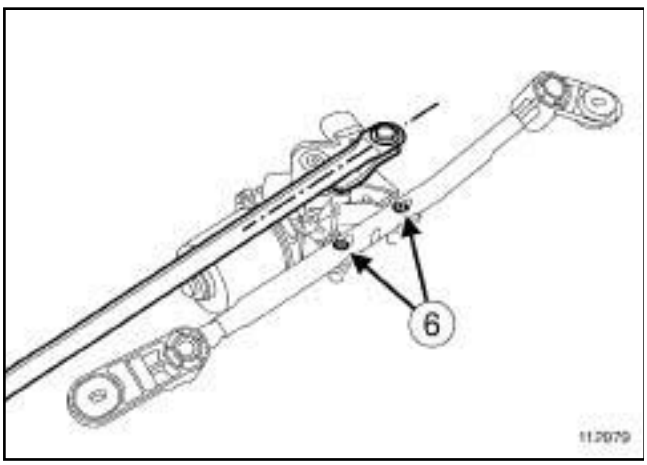


113337

❑ Position the motor shaft linkage (**5**) as shown in the illustration above.

❑ Torque tighten the **motor shaft linkage nut (18 Nm)**.

RIGHT-HAND DRIVE



112979

❑ Refit:

- the motor.
- the motor bolts (**6**) on the mechanism.

❑ Torque tighten the **motor bolts (9 N.m)** (**6**) .

❑ Align the motor shaft linkage as shown in the illustration above.

❑ Torque tighten the **motor shaft linkage nut (18 Nm)**.

FINAL OPERATION.

❑

Note:

Check that the motor is correctly positioned in the park position after tightening the nut.

❑ Refit the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) .

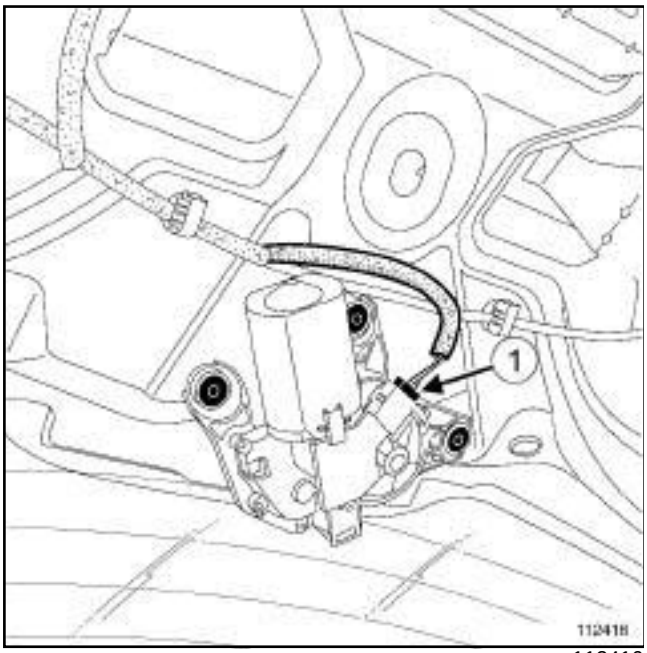
REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove:

- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the rear screen wiper arm (see **85A**, **Wiping - Washing**, **Rear screen wiper arm: Removal - Refitting**, page **85A-20**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



112416

❑ Disconnect the connector (**1**) .

❑

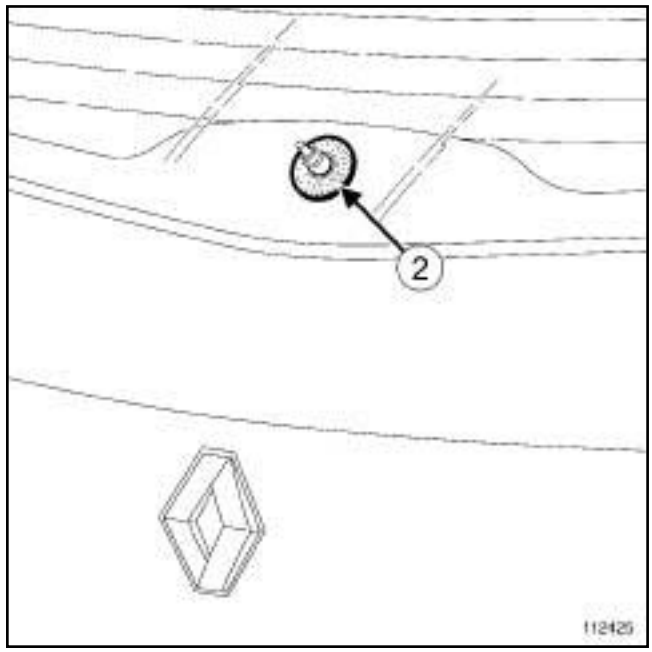
> Note:
>
> Be careful not to damage the outer skin and the tailgate box when removing the rivets. Recover the rivet bodies from the tailgate box section.

❑ Drill out the rivets(see **MR 400, 40A, General information**).

❑ Remove the motor.

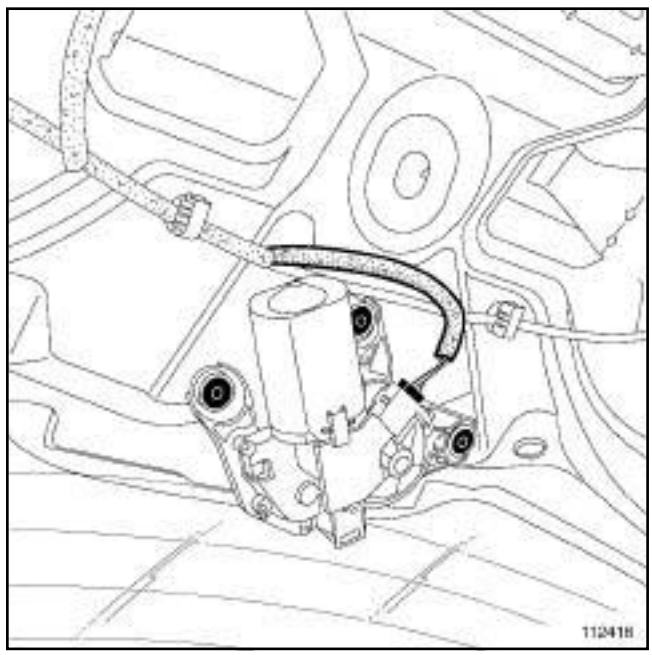
REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



112425

❑ Replace the seal (**2**) if necessary.



112416

❑ Position the motor.

❑ Rivet the engine (see **MR 400, 40A, General information**) (Rivets Part no. **77 03 072 362**).

❑ Connect the motor connector.

II - FINAL OPERATION.

❑ Refit:

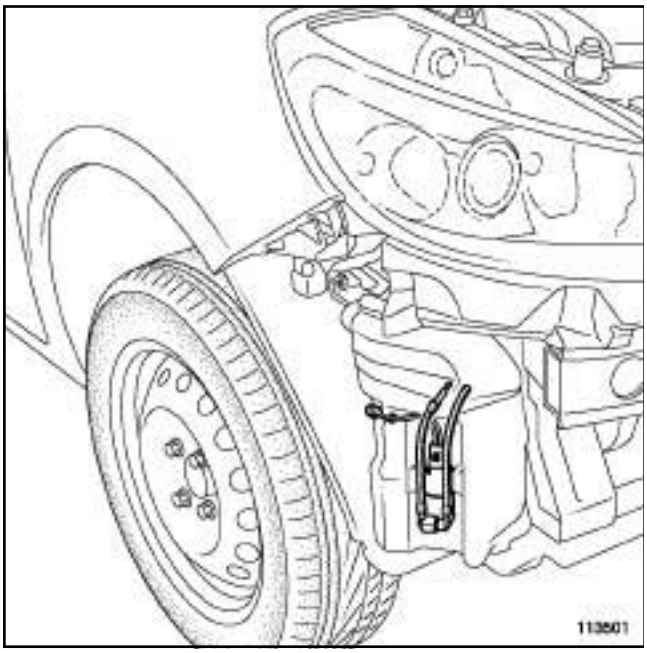
- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the rear screen wiper arm (see **85A**, **Wiping - Washing**, **Rear screen wiper arm: Removal - Refitting**, page **85A-20**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - REMOVAL OPERATION FOR PART CONCERNED



113501

❑

Note:
Mark the routing of the supply pipes and wiring.

❑ Unclip the supply pipes.

❑ Disconnect the connector.

❑ Unclip the windscreen washer pump.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Fit the windscreen washer pump.

❑ Connect the connector.

❑ Clip on the supply pipes.

II - FINAL OPERATION.

❑ Refit the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

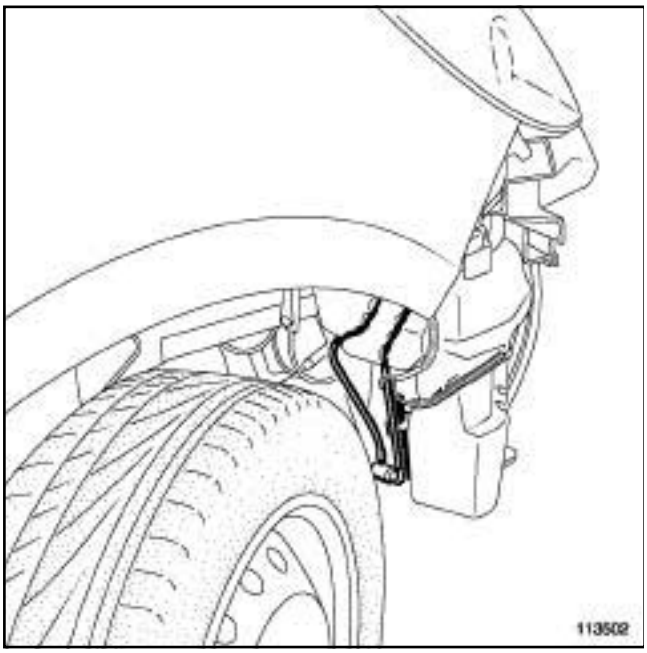
HEADLIGHT WASHERS WITH BLADE

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - REMOVAL OPERATION FOR PART CONCERNED



113502

❑ Unclip the supply pipes.

❑ Disconnect the connector.

❑ Unclip the headlight washer pump.

Note:
Mark the routing of the supply pipes and wiring.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Clip on the headlight washer pump.

❑ Connect the connector.

❑ Clip on the supply pipes.

II - FINAL OPERATION.

❑ Refit the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

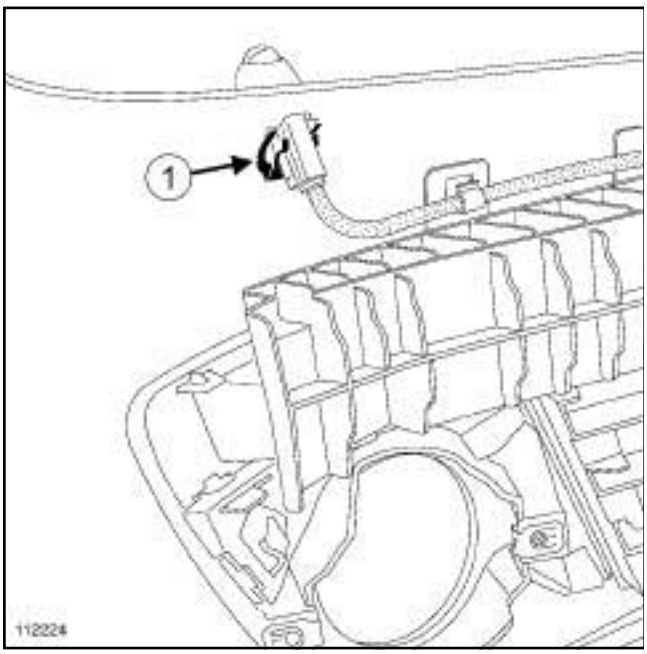
HEADLIGHT WASHERS WITH BLADE

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112224

❑ Remove clip (**1**) .

❑ Disconnect the supply pipe.

❑ Remove the jet.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the jet.

❑ Connect the supply pipe.

❑ Refit the clip.

II - FINAL OPERATION.

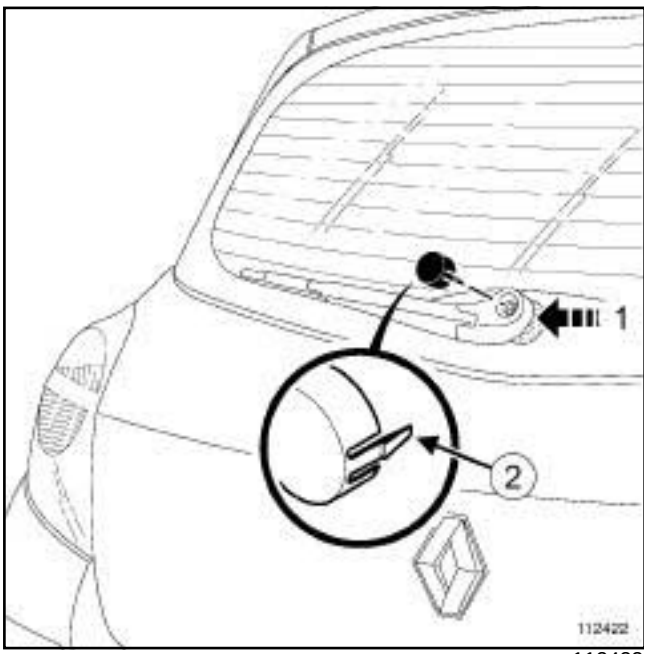
❑ Refit the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

Special tooling required	
Ele. 1781	Tool for removing windscreen wiper arms

Tightening torques ▽	
wiper arm nut	**12 N.m**

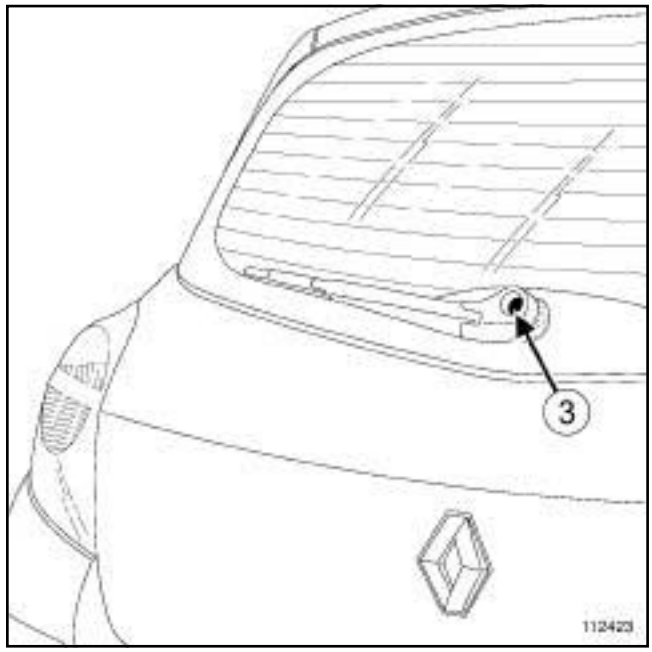
REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



112422

❑ Unclip the blanking cover by applying slight pressure (**1**) on the clip (**2**) .



112423

❑ Mark the position of the rear screen wiper arm before removing it.

❑ Remove:

- the wiper arm nut (**3**) ,
- the wiper arm using the **(Ele. 1781)**.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❑

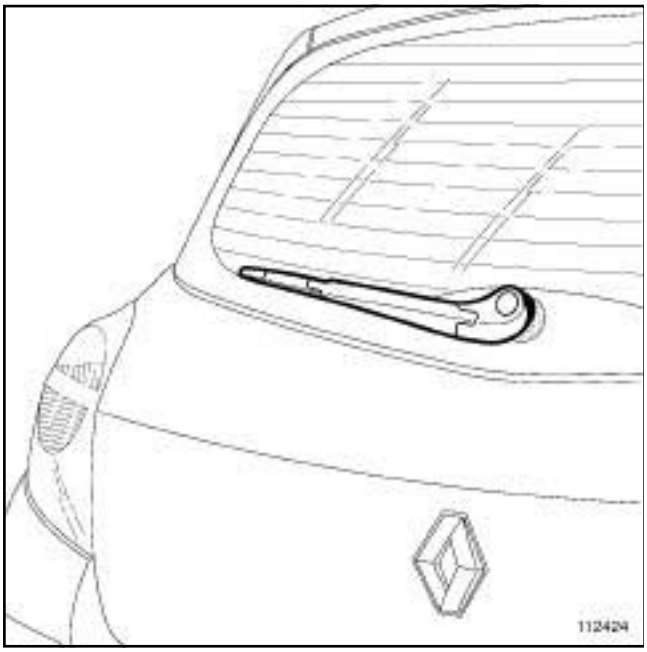
> Note:
>
> It is essential to initialise the rear screen wiper motor in the park position.

❑ Operate the wiper switch to set the wiper motor in the park position.

- move the switch from 0 to 1.
- move the switch from 1 to 0.

❑ Check that the wiper switch remains at position 0.

❑ Clean the motor shaft splines.



112424

- ❏ Refit the wiper arm in the rest position.
- ❏ Torque tighten the **wiper arm nut (12 N.m)**.
- ❏ Refit the blanking cover.

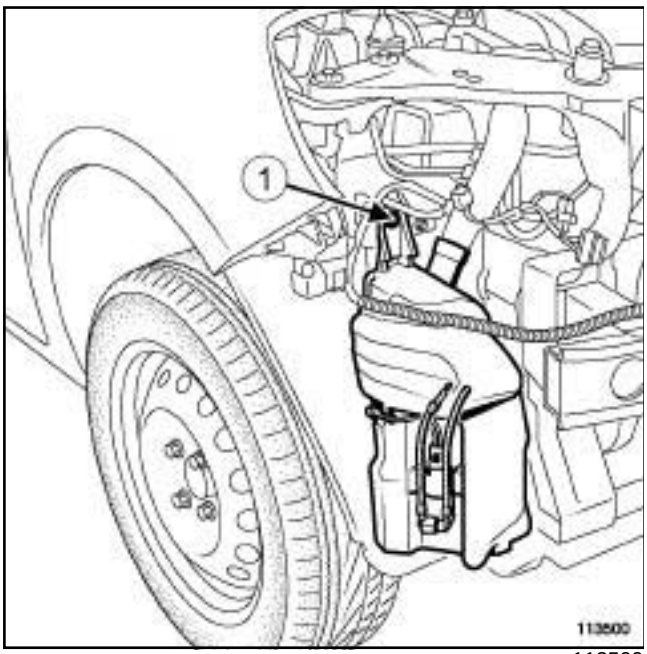
REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) .

II - REMOVAL OPERATION FOR PART CONCERNED



113500

❏ Unclip:

- the filler neck,
- the supply pipes,
- the connector,

❏ Remove:

- the bolt (**1**) ,
- the bottle.

Note:
Mark the routing of the supply pipes and wiring.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the bottle,
- bolt ***(1)*** .

❏ Clip:

- the filler neck,
- the connector,
- the supply pipes.

II - FINAL OPERATION.

❏ Refit:

- the headlight (see **80B**, **Headlights**, **Headlight: Removal - Refitting**, page **80B-7**) ,
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

Radio: List and location of components

I - LIST OF COMPONENTS

The radio system comprises:

- a radio control satellite (see **86A**, **Radio**, **Radio control satellite: Removal - Refitting**, page **86A-19**)
- a radio aerial (see **86A**, **Radio**, **Radio aerial: Removal - Refitting**, page **86A-11**)
- a radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**)
- a display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**)
- tweeters (see **86A**, **Radio**, **Tweeter: Removal - Refitting**, page **86A-13**)
- front speakers (see **86A**, **Radio**, **Front speakers: Removal - Refitting**, page **86A-14**)
- rear speakers (see **86A**, **Radio**, **Rear speakers: Removal - Refitting**, page **86A-15**)

RADIO NO. 05

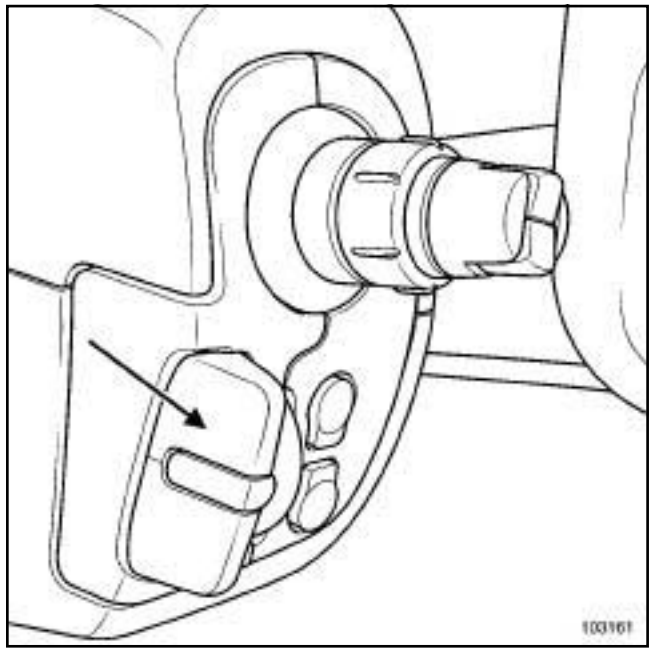
- a receiver (see **86A**, **Radio**, **Receiver: Removal - Refitting**, page **86A-20**)

RADIO NO. 08

- an offset multimedia socket (see **86A**, **Radio**, **Offset multimedia socket: Removal - Refitting**, page **86A-21**)
- an offset multimedia socket computer (see **86A**, **Radio**, **Offset multimedia socket computer: Removal - Refitting**, page **86A-23**)

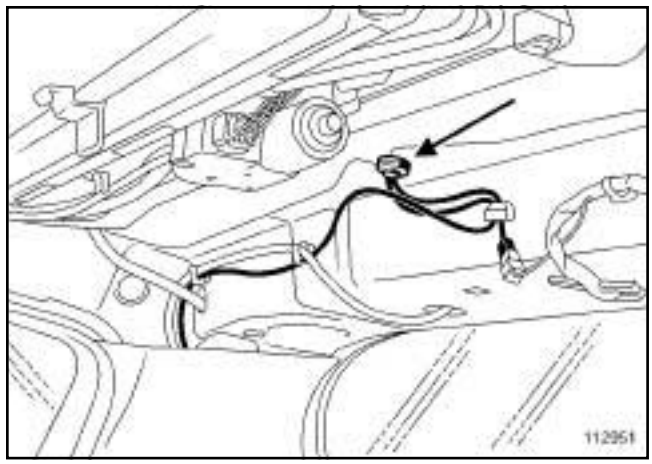
II - POSITION OF THE COMPONENTS

Radio control satellite



103161

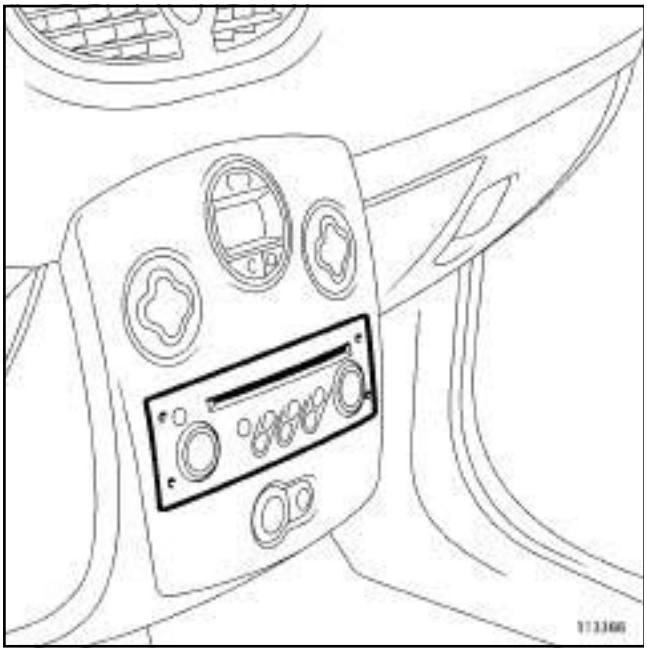
Radio aerial



112951

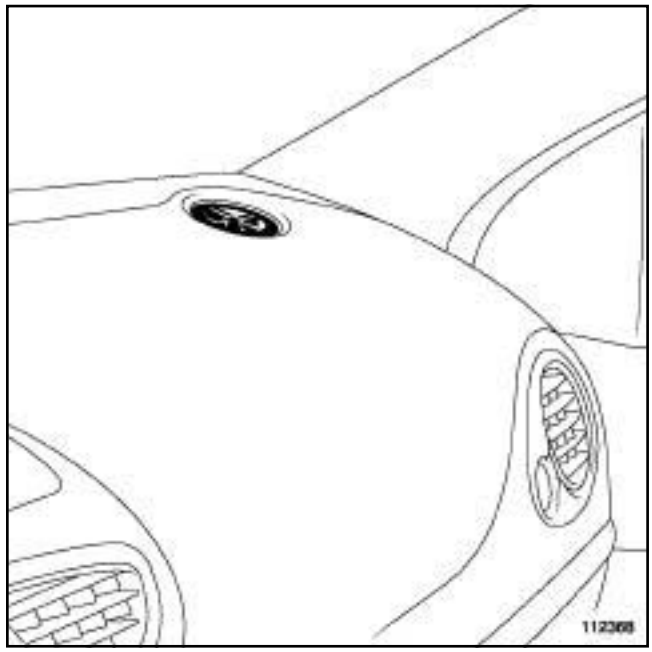
The radio aerial is located on the roof in the rear section.

Radio



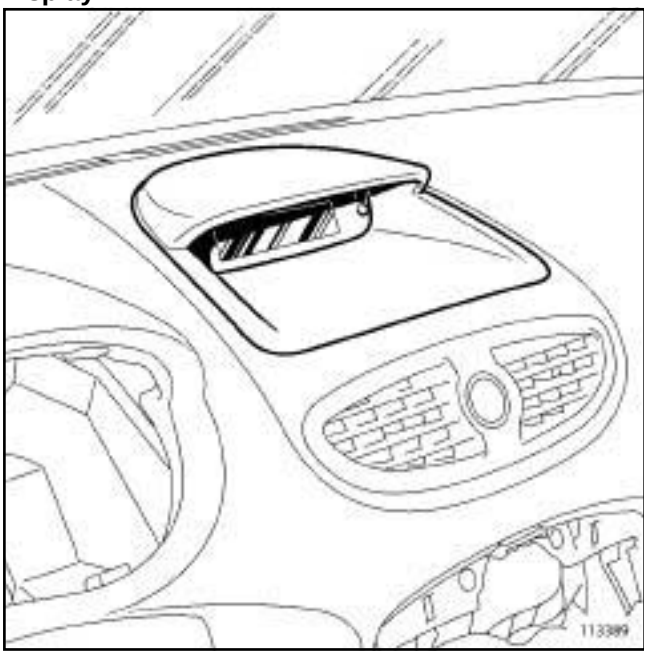
113388

Tweeter



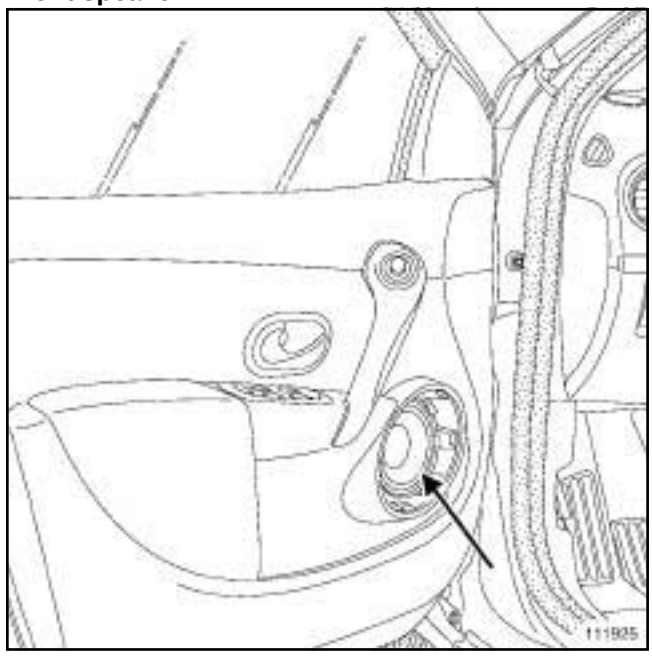
112368

Display



113389

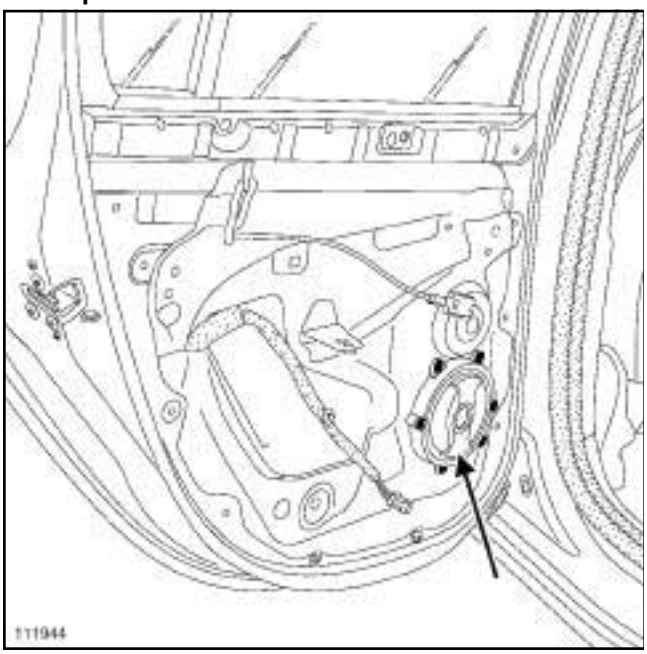
Front speaker



111925

B85 or K85

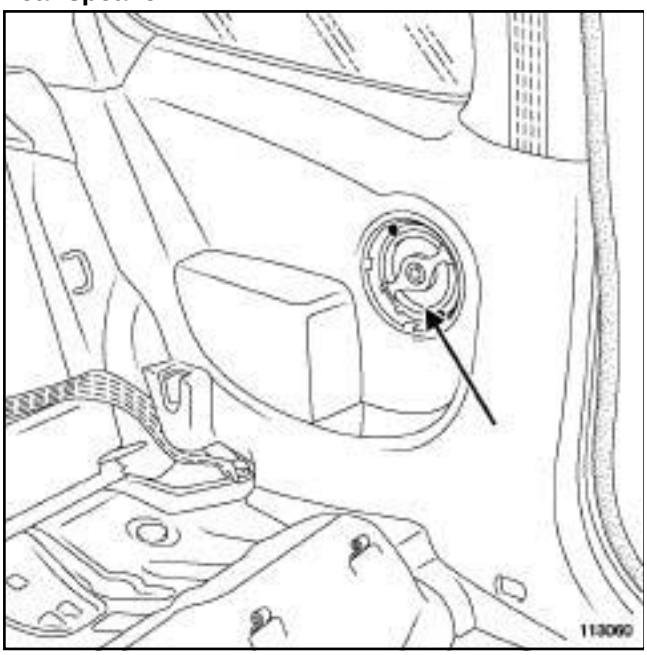
Rear speaker



111944

C85 or S85

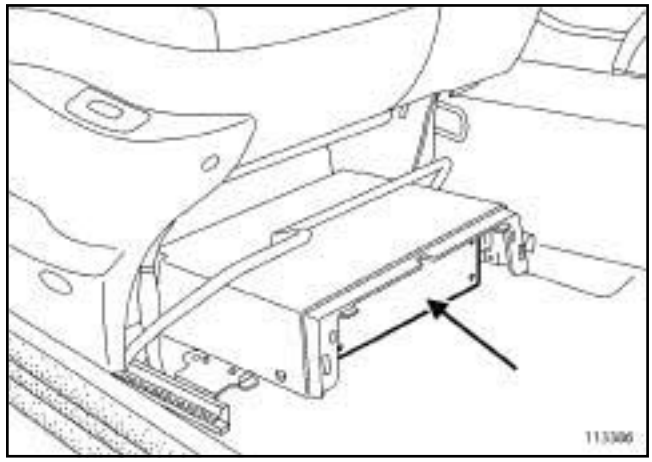
Rear speaker



113060

RADIO NO. 05

Tuner-amplifier

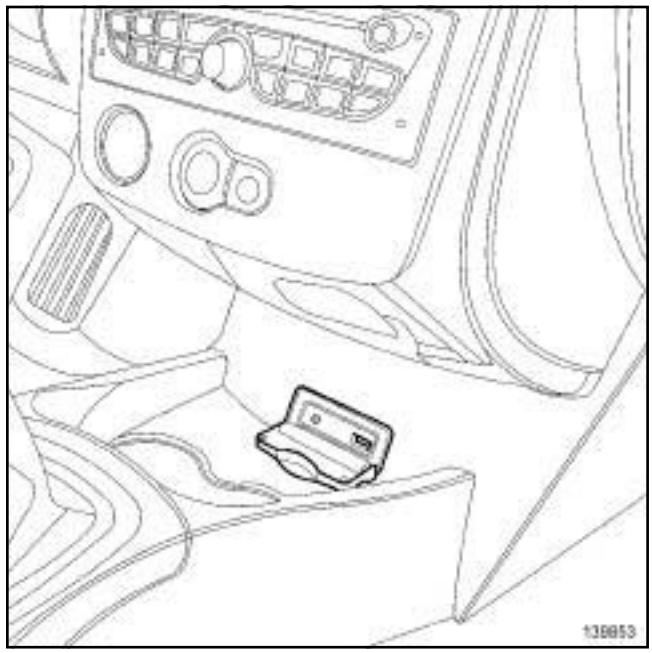


113386

The receiver is located under the front right-hand seat.

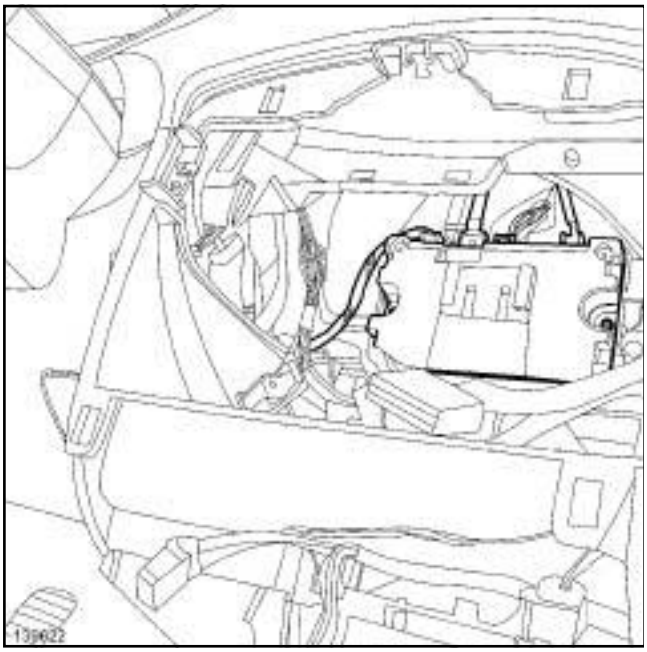
RADIO NO. 08

Offset multimedia socket



139853

Offset multimedia socket computer



139622

The offset multimedia socket computer is located behind the dashboard centre front panel.

The radio is protected by a four-digit code.

ENTERING THE RADIO ANTI-THEFT CODE

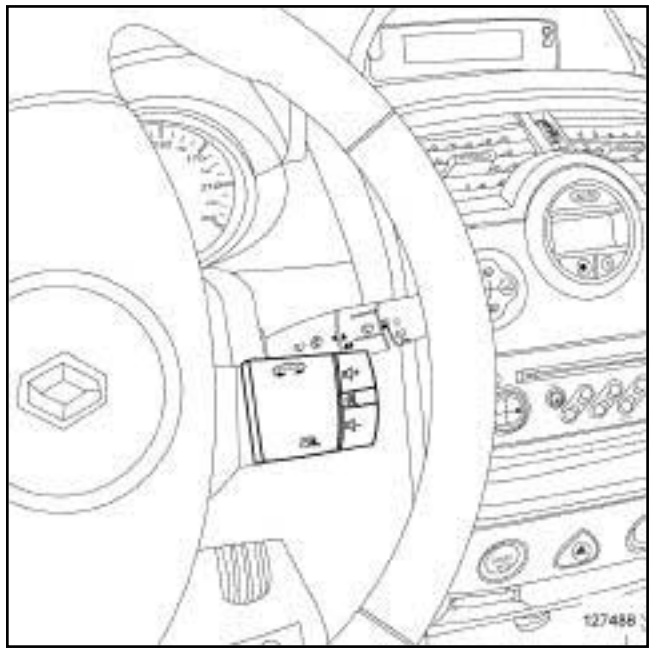
RADIO NO. 01

❏ Switch on the ignition.

❏ Switch the radio on.

❏ Wait until **0000** appears on the central display and the first **0** flashes.

1 - Entering the code using the steering column control



127488

❏ Display the first digit by pressing the + or - buttons on the steering column switch.

Confirm this digit by pressing the wheel on the steering column control.

Press on the right-hand button of the steering column control to move on to the second digit.

❏ Display the second digit by pressing the + or - buttons on the steering column control.

Confirm this digit by pressing the wheel on the steering column control.

Press on the right-hand button of the steering column control to move on to the third digit.

❏ Display the third digit by pressing the + or - buttons on the steering column control.

Confirm this digit by pressing the wheel on the steering column control.

Press on the right-hand button of the steering column control to move on to the fourth digit.

❏ Display the fourth digit by pressing the + or - buttons on the steering column control.

Confirm this digit by pressing the wheel on the steering column control.

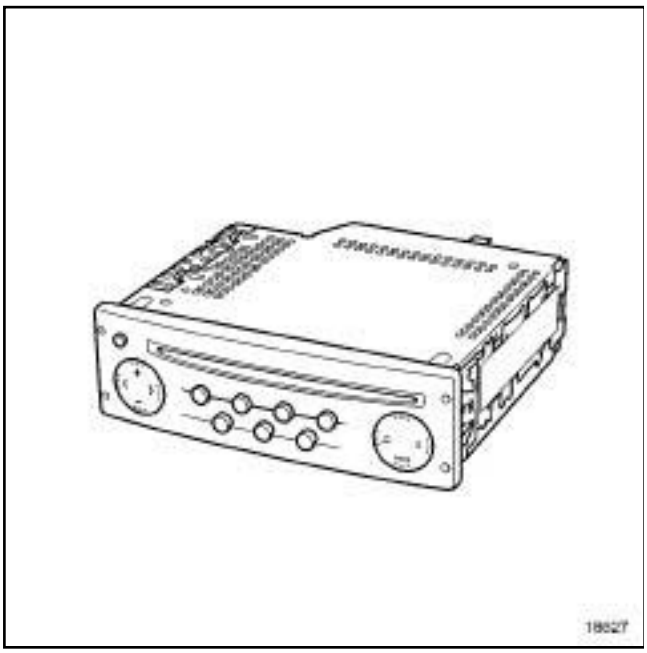
Keep the wheel pressed to transfer this code to the radio. As soon as the operation is complete, the confirmation beep will sound.

❏ If the code entered is correct, the radio operates.

❏ If the code is incorrect , the word **CODE** appears on the display.

❏ Wait until **0000** appears on the screen and repeat the operations again.

2 - Entering the code using the radio



18627

❏ Press on button 1 of the keypad until the desired number is obtained for the first digit.

Press on button 2 of the keypad until the desired number is obtained for the second digit.

Press on button 3 of the keypad until the desired number is obtained for the third digit.

Press on button 4 of the keypad until the desired number is obtained for the fourth digit.

❏ As soon as the code is correctly displayed, press and hold button 6 on the keypad to transfer this code to the radio. As soon as the operation is complete, the confirmation beep will sound.

❏ If the code entered is correct, the radio operates.

❏ If the code is incorrect , the word **CODE** appears on the display.

❏ Wait until **0000** appears on the screen and repeat the operations again.

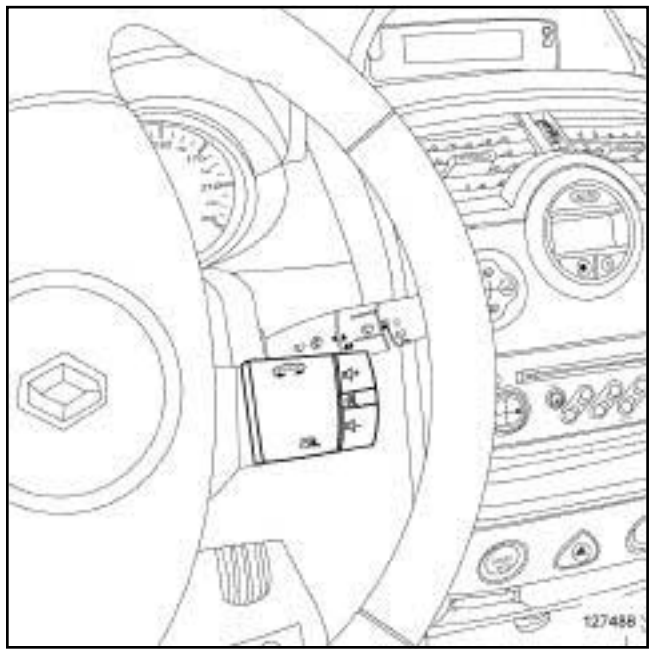
RADIO NO. 02 or RADIO NO. 03 or RADIO NO.04 or RADIO NO. 05 or RADIO NO. 06 or RADIO NO. 07 or RADIO NO. 08

❏ Switch on the ignition.

❏ Switch the radio on.

❏ Wait until **RADIO CODE 0000** appears on the central display and the first **0** flashes.

3 - Entering the code using the steering column control



127488

❏ Display the first digit by pressing the + or - buttons on the steering column switch.

Press on the right-hand button of the steering column control to move on to the second digit.

❏ Display the second digit by pressing the + or - buttons on the steering column control.

Press on the right-hand button of the steering column control to move on to the third digit.

❏ Display the third digit by pressing the + or - buttons on the steering column control.

Press on the right-hand button of the steering column control to move on to the fourth digit.

❏ Display the fourth digit by pressing the + or - buttons on the steering column control.

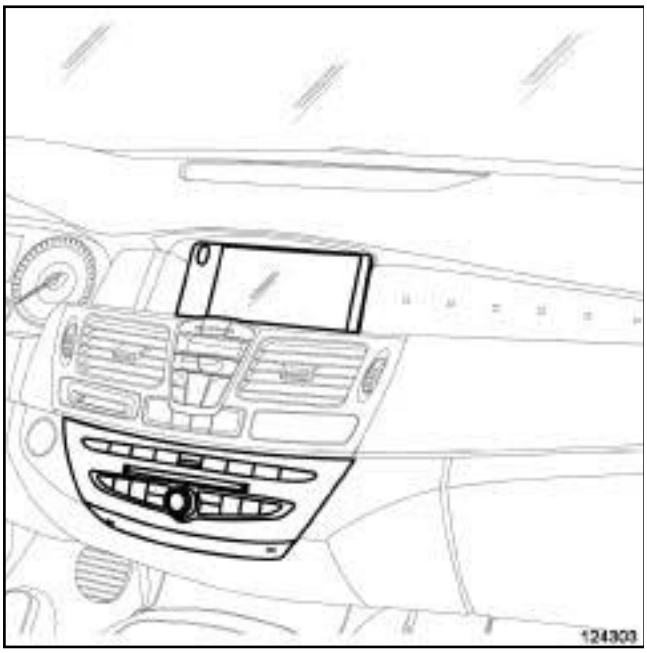
Keep the OK button pressed to transfer this code to the radio. As soon as the operation is complete, the confirmation beep will sound.

❏ If the code entered is correct, the radio operates.

❏ If the code is incorrect, the words **ERROR CODE** appear on the display.

❏ Wait until **RADIO CODE 0000** appears on the screen and repeat the operations again.

4 - Entering the code using the rotary button on the radio



124303

❏ Display the first digit by turning the rotary button on the radio.

Press the right-hand button to move on to the second digit.

❏ Display the second digit by turning the rotary button on the radio.

Press the right-hand button to move on to the third digit.

❏ Display the third digit by turning the rotary button on the radio.

Press the right-hand button to move on to the fourth digit.

❏ Display the fourth digit by turning the rotary button on the radio.

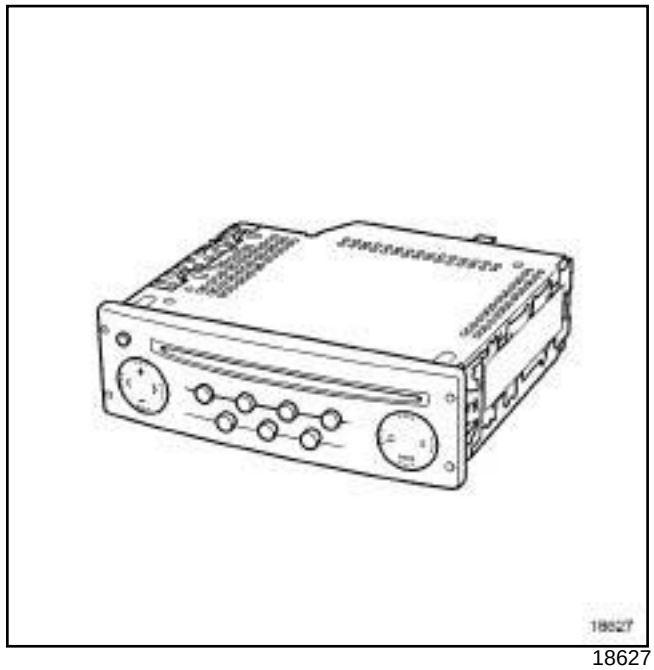
Keep the OK button pressed to transfer this code to the radio. As soon as the operation is complete, the confirmation beep will sound.

❏ If the code entered is correct, the radio operates.

❏ If the code is incorrect, the words **ERROR CODE** appear on the display.

❏ Wait until **RADIO CODE 0000** appears on the screen and repeat the operations again.

5 - Entering the code using the radio



18627

❏ Press on button 1 of the keypad until the desired number is obtained for the first digit.

Press on button 2 of the keypad until the desired number is obtained for the second digit.

Press on button 3 of the keypad until the desired number is obtained for the third digit.

Press on button 4 of the keypad until the desired number is obtained for the fourth digit.

❏ As soon as the code is correctly displayed, press and hold button 6 on the keypad to transfer this code to the radio. As soon as the operation is complete, the confirmation beep will sound.

❏ If the code entered is correct, the radio operates.

❏ If the code is incorrect, the words **ERROR CODE** appear on the display.

❏ Wait until **RADIO CODE 0000** appears on the screen and repeat the operations again.

Special tooling required	
Ms. 1544	Tool for removing radios - Carminat Becker and Cabasse.
Ms. 1373	Tool for removing radios or chronotachographs.

Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

RADIO NO. 07

❑ If replacing, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86A, R01-08).

RADIO NO. 08

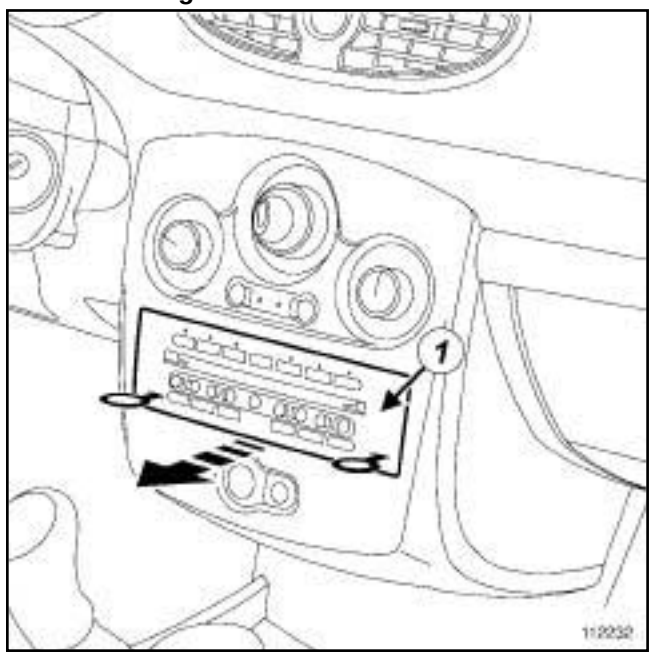
❑ If replacing, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86A, R02-08).

❑ Switch off the ignition.

II - OPERATION FOR REMOVAL OF PART CONCERNED

RADIO NO. 05

CD multichanger radio

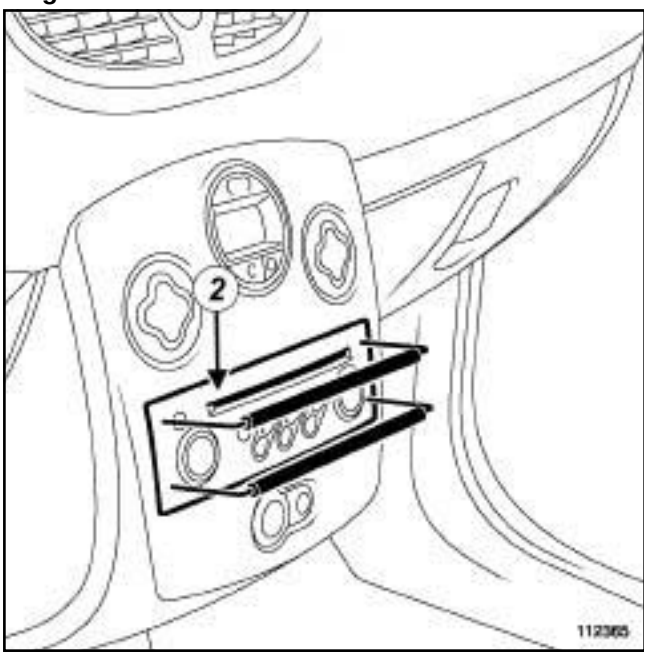


112232

❑ Remove the radio (**1**) using the **(Ms. 1544)**.

RADIO NO. 01 or RADIO NO. 02 or RADIO NO.03 or RADIO NO. 04 or RADIO NO. 06 or RADIO NO. 07 or RADIO NO. 08

Single CD radio



112365

❏ Remove the radio (**2**) using the two **(Ms. 1373)**.

❏ Disconnect the audio equipment connectors.

WARNING

To ensure correct operation:

- do not pinch the aerial cable,
- do not bend the aerial cable,
- do not force the aerial cable when refitting.

❏ Disconnect the aerial.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

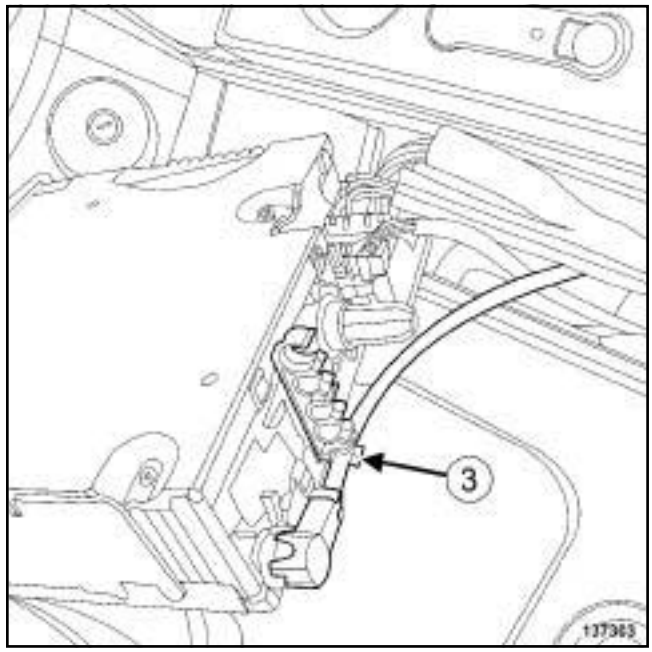
❏

WARNING

To ensure correct operation:

- do not pinch the aerial cable,
- do not bend the aerial cable,
- do not force the aerial cable when refitting.

❏ Connect the aerial.



137303

❏ Clip on the aerial wiring at (**3**) .

❏ Connect the radio connectors.

❏ Refit the radio.

II - FINAL OPERATION

❏ Carry out the necessary operations (see **Fault finding - Replacement of components**) (86A, Radio).

RADIO NO. 07

❏ If replacing, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86A, R01-08).

RADIO NO. 08

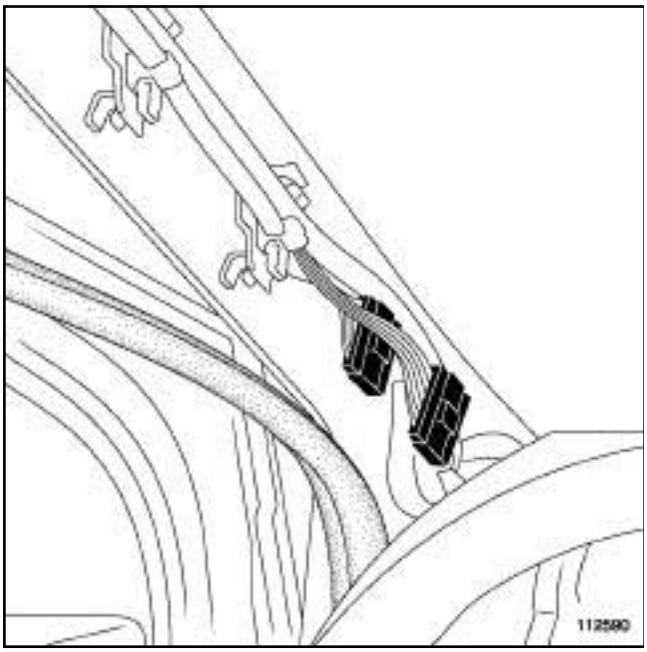
❑ If replacing, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86A, R02-08).

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Depending on the equipment level of the vehicle, remove the covers for the interior rear-view mirror in order to disconnect the rain sensor connector (see **85A**, **Wiping - Washing**, **Rain and light sensor: Removal - Refitting**, page **85A-5**) .

❏ Remove the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

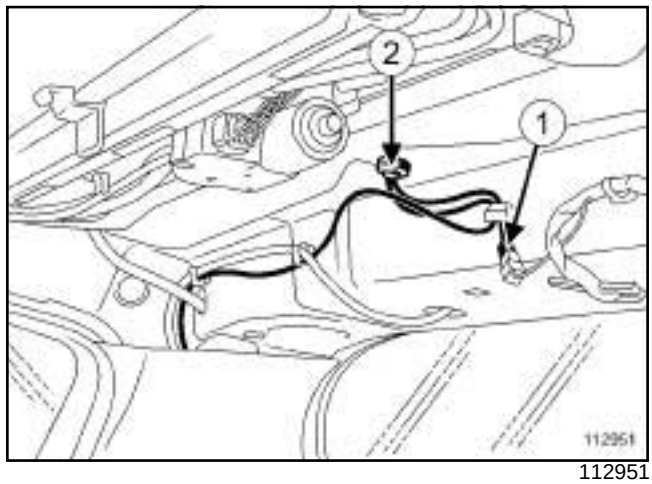


112590

❏ Carefully disconnect the various connectors.

❏ Remove the right-hand rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

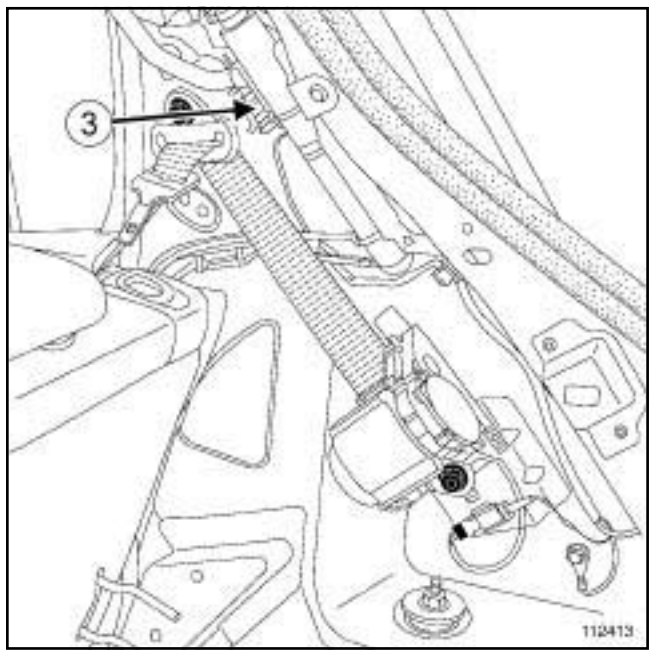
II - OPERATION FOR REMOVAL OF PART CONCERNED



112951

❏ Unclip the connector (**1**) .

❏ Remove the bolt ***(2)*** .



112413

❏ Unclip the connector(s) (depending on the version) from the union board (**3**) .

❏ Remove the aerial.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the aerial.

❏ Tighten the bolt ***(2)*** .

❑

Note:

Make sure that the wiring is in good condition.

Clip the connectors in place.

II - FINAL OPERATION.

❑ Refit the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

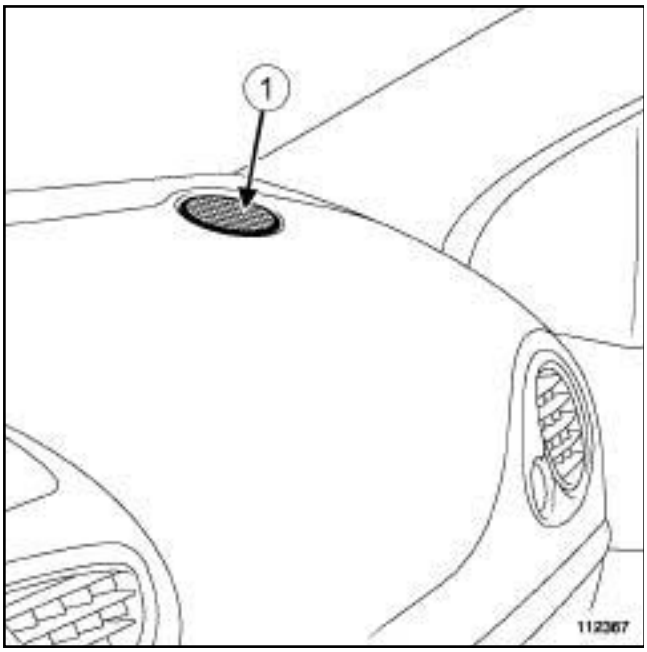
❑ Depending on the level of equipment of the vehicle, reconnect the rain sensor connector.

❑ Depending on the equipment level of the vehicle, refit the interior rear-view mirror covers (see **85A**, **Wiping - Washing**, **Rain and light sensor: Removal - Refitting**, page **85A-5**) .

❑ Refit the right-hand rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

REMOVAL

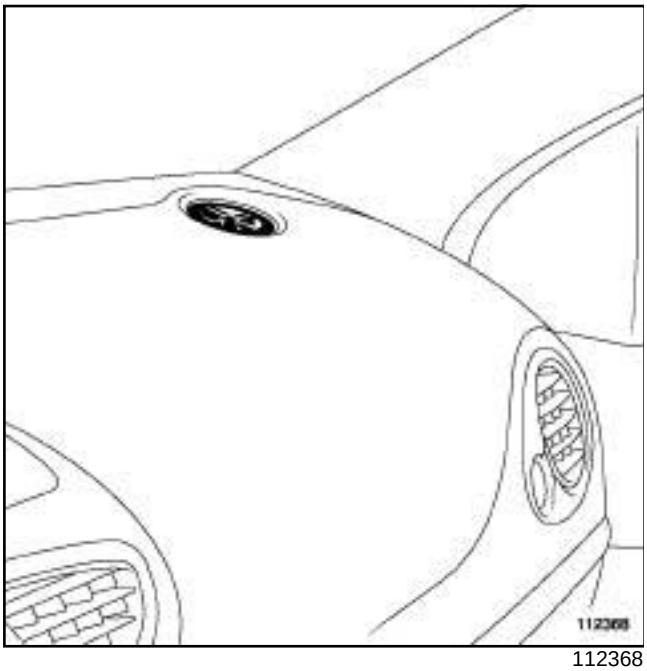
I - REMOVAL PREPARATION OPERATION



112367

❏ Unclip the tweeter grille using a flat-blade screwdriver (**1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



112368

❏ Unclip:

- the tweeter,
- the connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip on:

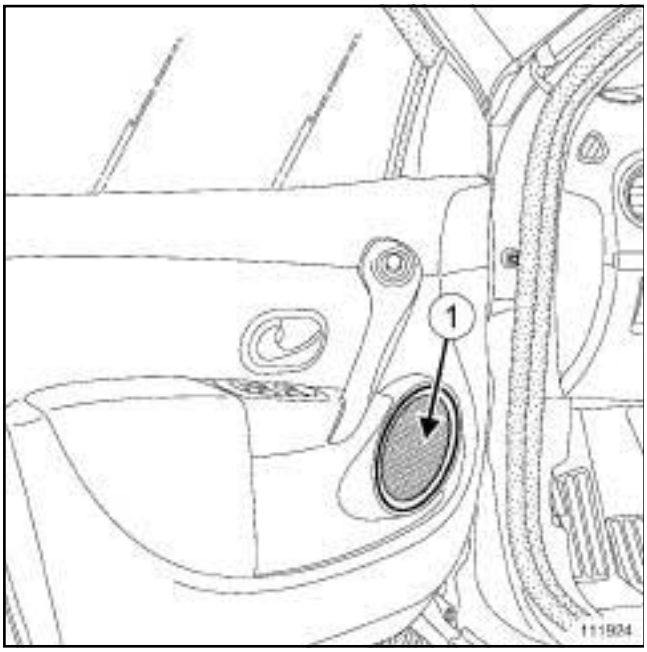
- the connector,
- the tweeter.

II - FINAL OPERATION

❏ Clip on the tweeter grille.

REMOVAL

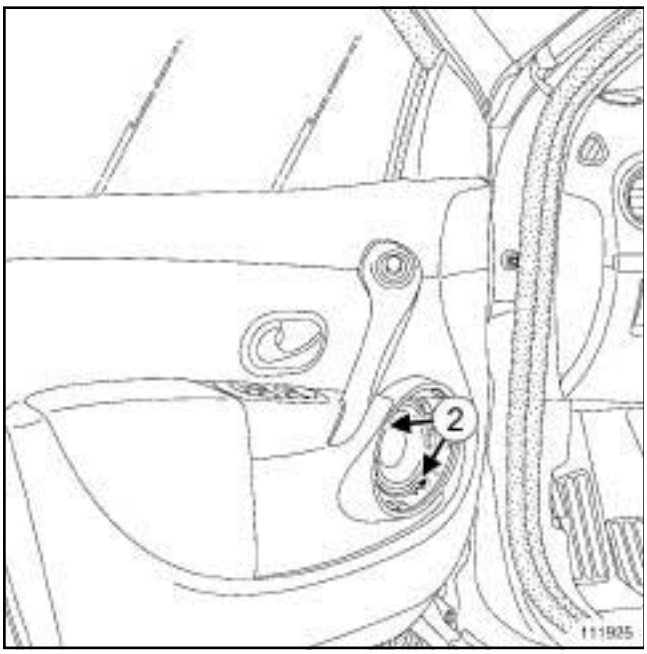
I - REMOVAL PREPARATION OPERATION



111924

❏ Remove the front speaker grille (**1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



111925

❏ Remove:

- the bolts (**2**) ,
- the front speaker.

❏ Disconnect the connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connector,

❏ Refit:

- the front speaker,
- the bolts ***(2)*** .

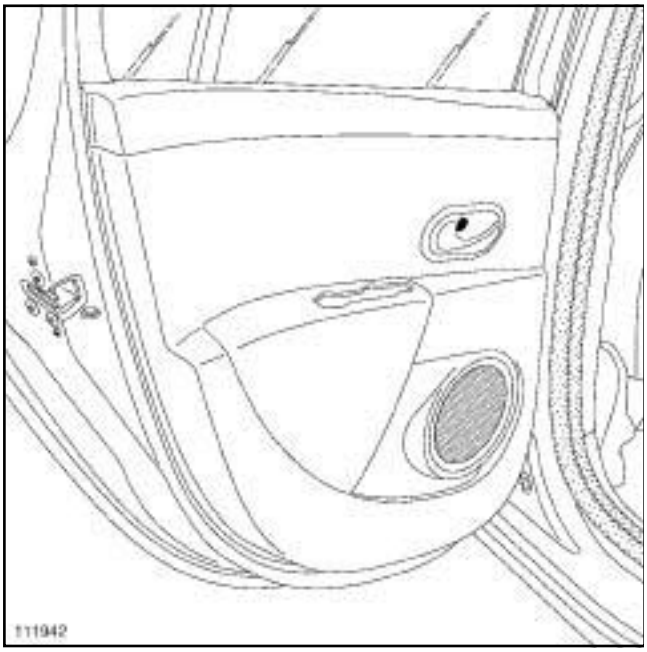
II - FINAL OPERATION

❏ Clip on the front speaker grille.

REMOVAL

I - REMOVAL PREPARATION OPERATION

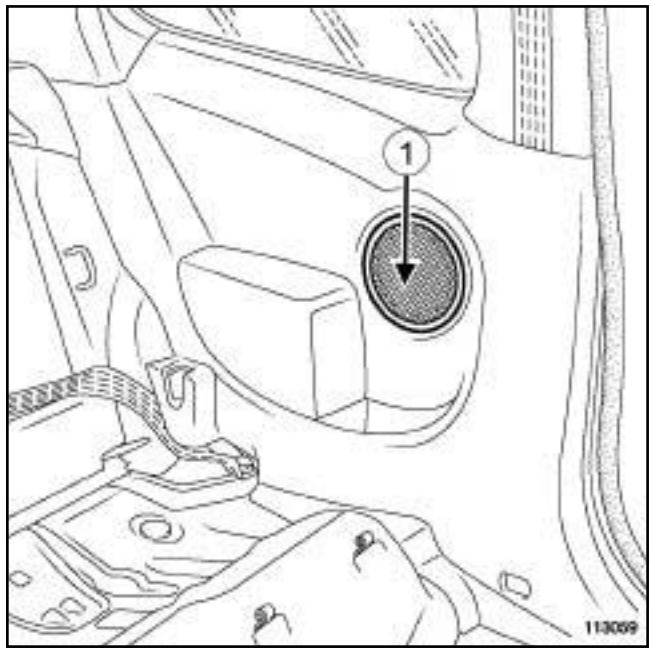
B85 or K85



111942

❑ Remove the rear door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim).

C85 or S85

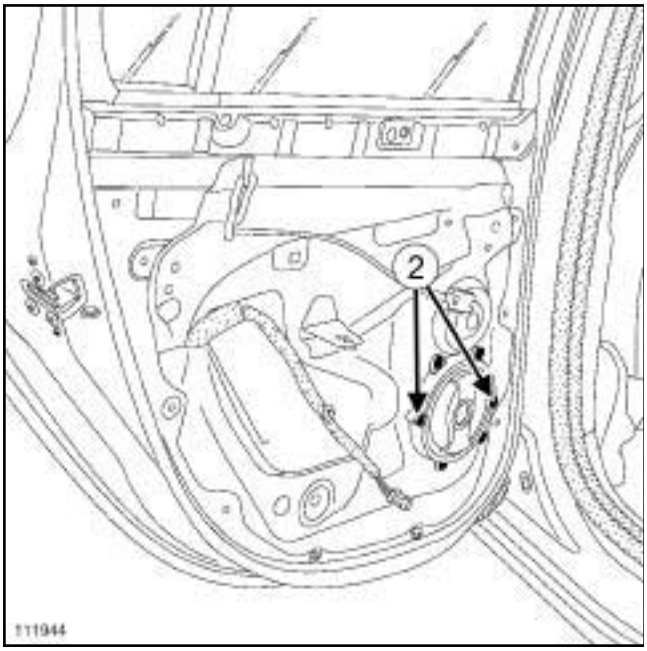


113059

❑ Unclip the rear speaker grille (**1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

B85 or K85



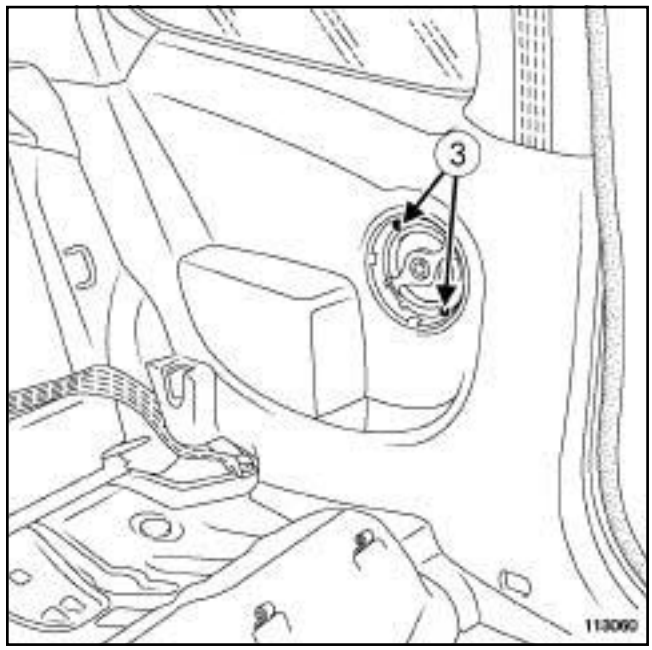
111944

❏ Remove:

- the bolts (**2**) ,
- the rear speaker.

❏ Disconnect the connector.

C85 or S85



113060

❏ Remove:

- the bolts (**3**) ,
- the rear speaker.

❏ Disconnect the connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

B85 or K85

❏ Connect the connector,

❏ Refit:

- the rear speaker,
- the bolts ***(2)*** .

C85 or S85

❏ Connect the connector.

❏ Refit:

- the rear speaker,

- the bolts ***(3)*** .

II - FINAL OPERATION.

B85 or K85

❑ Refit the rear door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim).

C85 or S85

❑ Clip in the rear speaker grille ***(1)*** .

Special tooling required	
Car. 1597	Trim removal lever.

REMOVAL

I - REMOVAL PREPARATION OPERATION

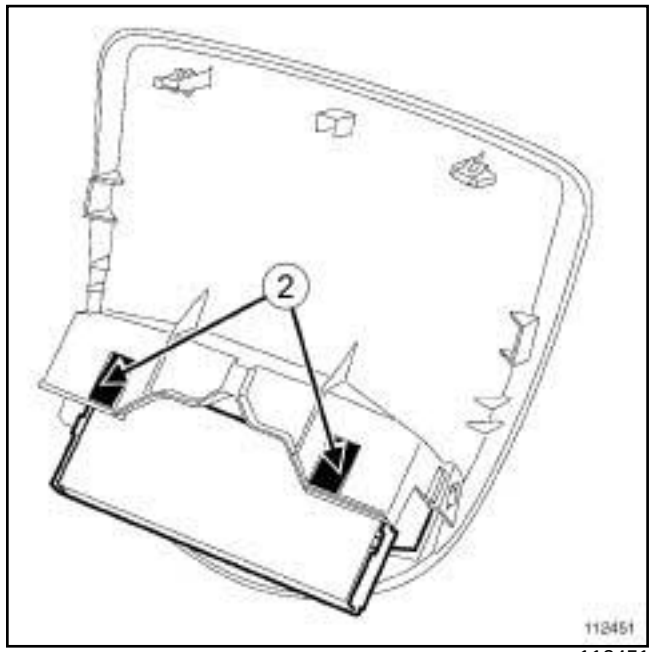


112450

❏ Unclip the display mounting (**1**) using the **(Car. 1597)**.

❏ Disconnect the connectors.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112451

❏ Unclip the display at (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the display onto the mounting.

II - FINAL OPERATION.

❏ Connect the connectors.

❏ Clip on the display mounting.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

❑

> Note:
>
> The satellite radio control and the wiper stalk form a single inseparable part.

❑ Remove the wiper switch (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) .

REFITTING OPERATION FOR PART CONCERNED

❑ Refit the wiper switch (see **84A**, **Control - Signals**, **Screen wiper switch: Removal - Refitting**, page **84A-8**) .

RADIO NO. 05

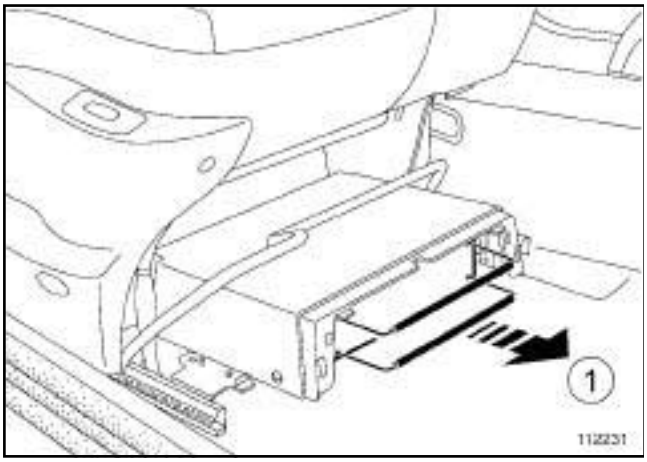
Special tooling required	
Ms. 1373	Tool for removing radios or chronotachographs.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the cover from the tuner-amplifier compartment.

II - REMOVAL OPERATION FOR THE PART CONCERNED



112231

❏ Remove the receiver (**1**) using two **(Ms. 1373)**.

❏ Disconnect the connectors.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connectors.

❏ Refit the receiver.

II - FINAL OPERATION

❏ Refit the cover for the tuner-amplifier compartment.

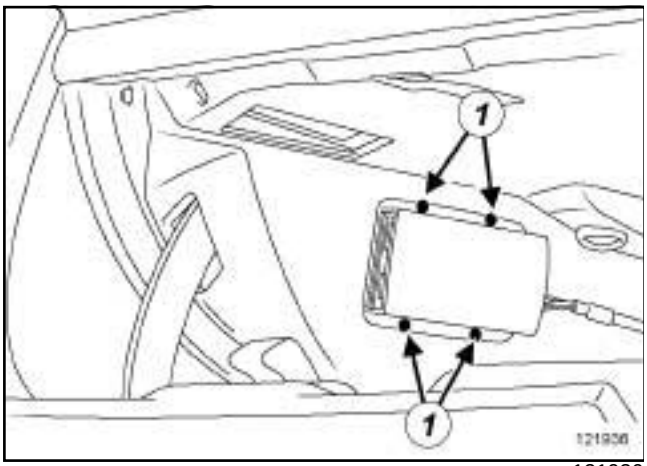
Offset multimedia socket: Removal - Refitting

RADIO NO. 01 or RADIO NO. 02 or RADIO NO. 03 or RADIO NO. 04

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED

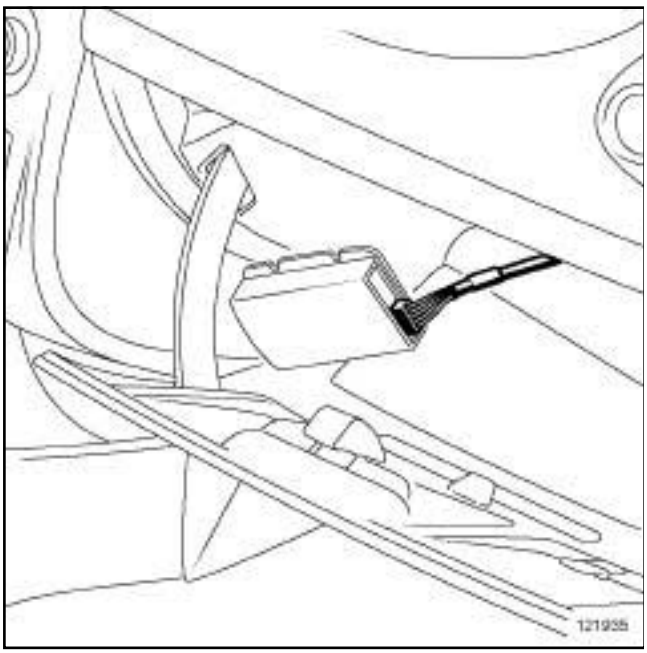
❏ Open the glovebox.



121936

❏ Remove:

- the offset audio unit bolts (**1**) ,
- the offset audio unit.



121935

❏ Disconnect the offset audio unit connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏

Note:

When replacing the offset audio unit, replace the wiring harness and check that the wiring harness runs correctly to the radio.

(see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

❏ Connect the offset audio unit connector.

❏ Refit:

- the offset audio unit,
- the offset audio unit bolts.

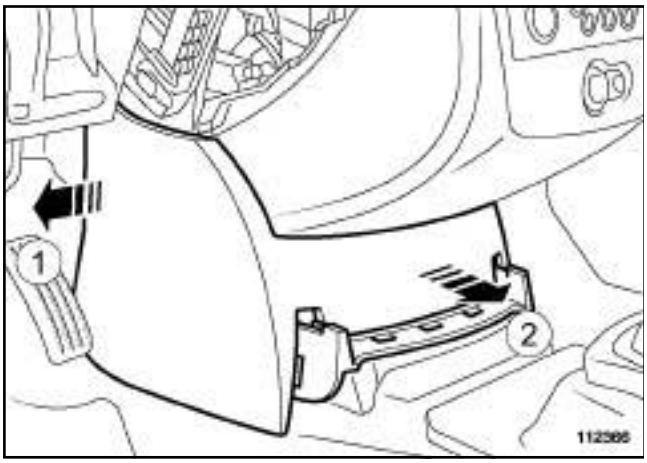
RADIO NO. 08

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Switch off the ignition.

❏ Remove the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).



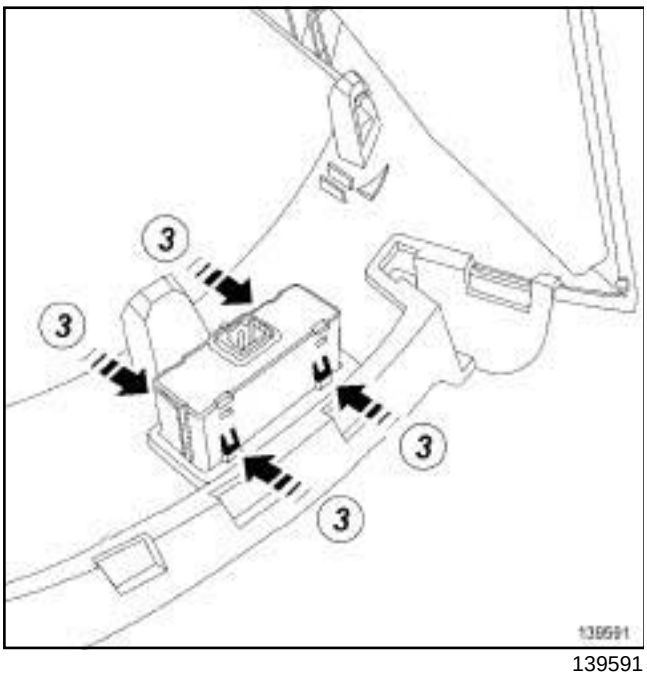
112366

❏ Unclip the lower centre trim at (**1**) and (**2**) .

❏ Disconnect the offset multimedia socket connectors.

❏ Remove the lower centre trim.

II - OPERATION FOR REMOVAL OF PART CONCERNED



139591

❏ Remove the offset multimedia socket by pressing on the clips at (**3**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the offset multimedia socket onto the lower centre trim.

II - FINAL OPERATION

❏ Fit the lower centre trim.

❏ Connect the offset multimedia socket connectors.

❏ Clip on the lower centre trim.

❏ Refit the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

RADIO NO. 08

Equipment required
Diagnostic tool

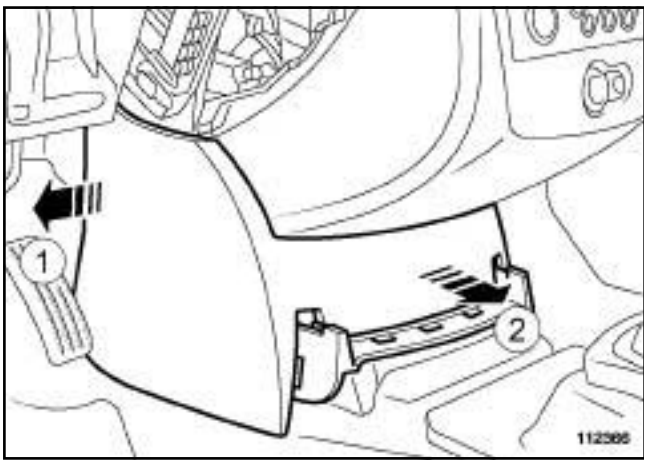
REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove:

- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).



112366

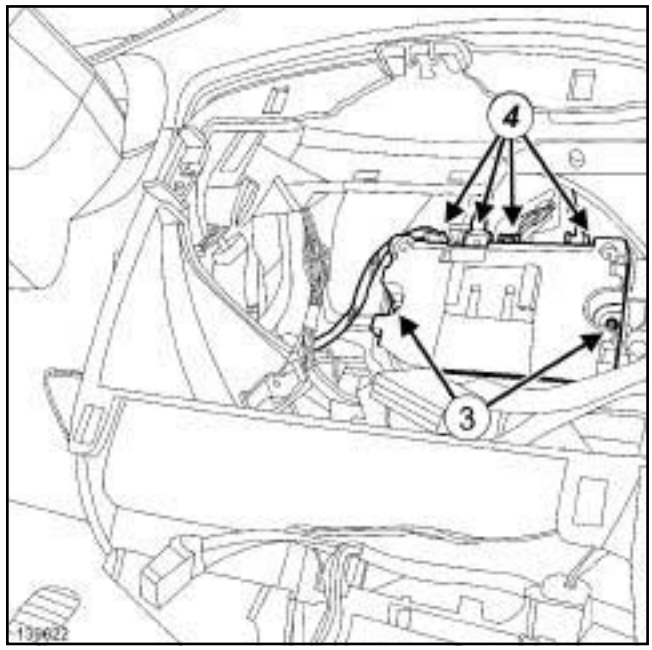
❏ Unclip the lower centre trim at (**1**) and (**2**) .

❏ Disconnect the offset multimedia socket connectors.

❏ Remove:

- the centre front panel (see **Centre front panel: Removal - Refitting**) (57A, Interior equipment),
- the control panel (see **Control panel: Removal - Refitting**) (61A, Heating).

II - OPERATION FOR REMOVAL OF PART CONCERNED



139622

❏ Remove the bolts (**3**) from the offset multimedia socket computer.

❏ Separate the offset multimedia socket computer from its housing.

❏ Disconnect the offset multimedia socket computer connectors (**4**) .

❏ Remove the offset multimedia socket computer.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Fit the offset multimedia socket computer.

❏ Connect the offset multimedia socket computer connectors.

❏ Refit the offset multimedia socket computer.

II - FINAL OPERATION

❏ Refit:

- the control panel (see **Control panel: Removal - Refitting**) (61A, Heating),
- the centre front panel (see **Centre front panel: Removal - Refitting**) (57A, Interior equipment).

❏ Fit the lower centre trim.

❏ Connect the offset multimedia socket connectors.

❏ Clip on the lower centre trim.

RADIO NO. 08

❏ Refit:

- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86A, Radio).

CAR PHONE PRE-EQUIPMENT or HANDS-FREE TELEPHONE KIT

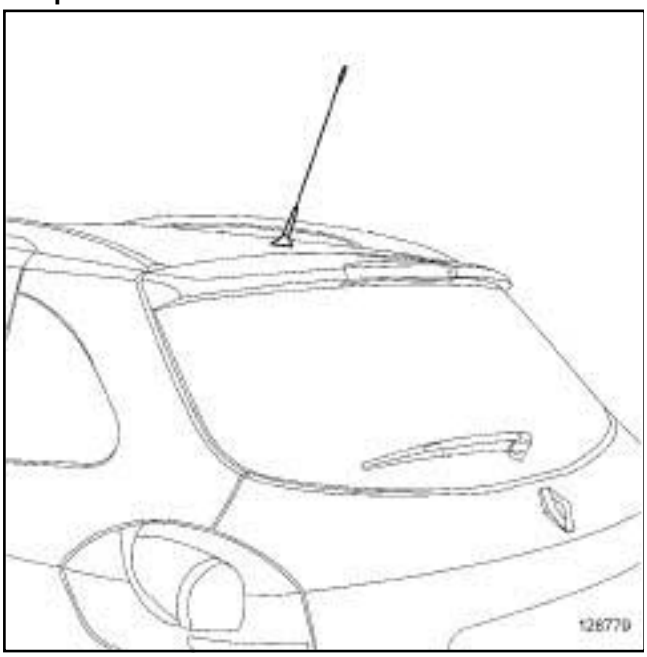
I - LIST OF COMPONENTS

The « car phone » consists of:

- a telephone aerial
- a computer
- a "hands-free" microphone
- a telephone control on the steering wheel

II - LOCATION OF COMPONENTS

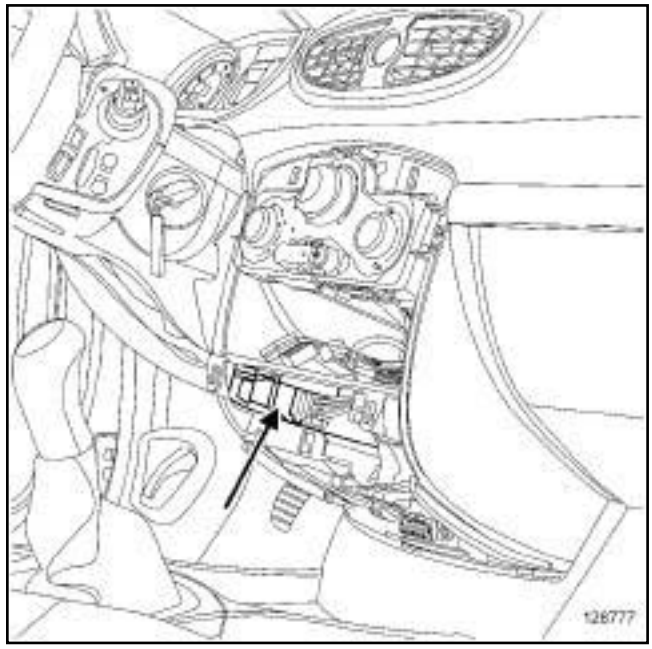
Telephone aerial



128779

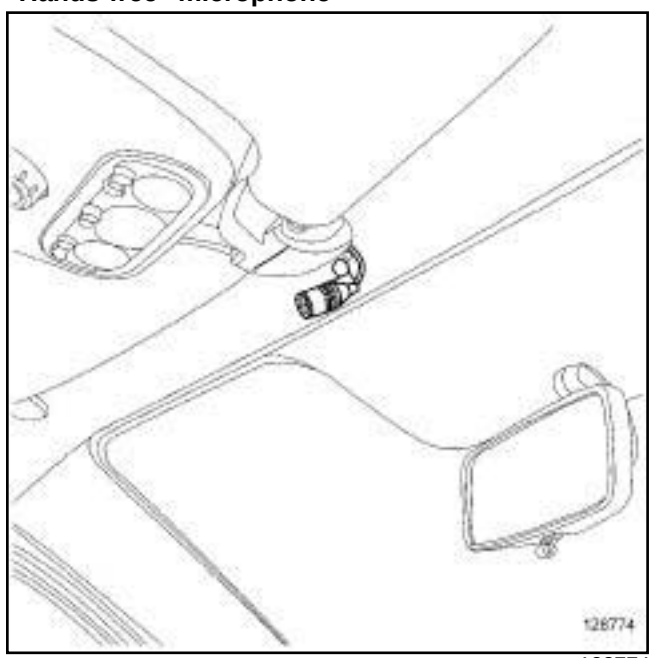
To remove the telephone aerial (see **86A**, **Radio**, **Radio aerial: Removal - Refitting**, page **86A-11**) .

Computer



128777

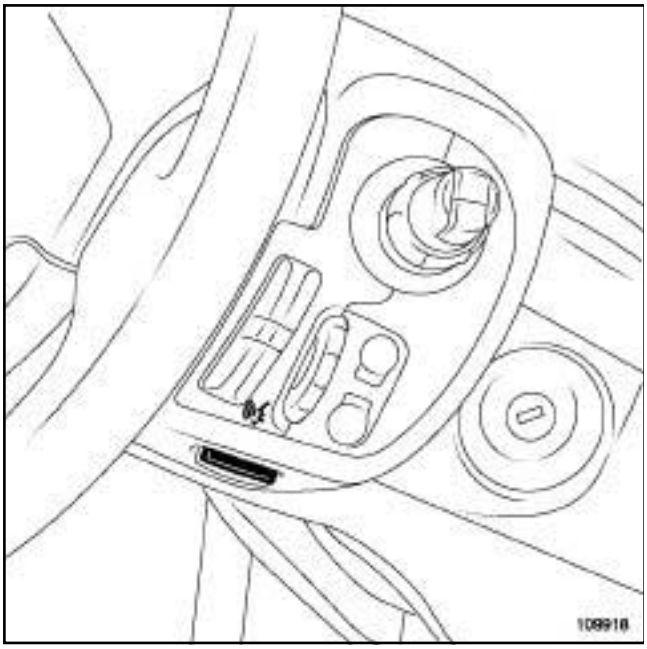
"Hands-free" microphone



128774

CAR PHONE PRE-EQUIPMENT or HANDS-FREE TELEPHONE KIT

Telephone control at steering wheel



109918

To remove the steering wheel car phone control (see **86A**, **Radio**, **Radio control satellite: Removal - Refitting**, page **86A-19**) .

CAR PHONE PRE-EQUIPMENT or HANDS-FREE TELEPHONE KIT

Equipment required
Diagnostic tool

Note:

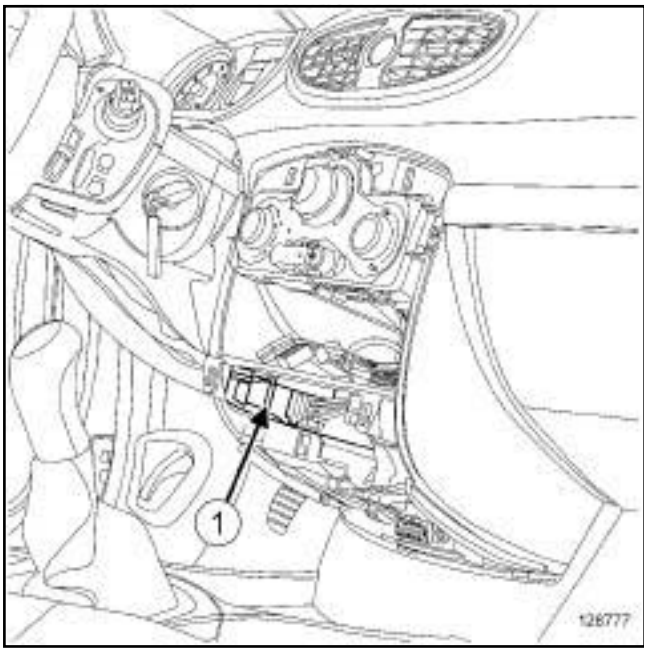
The computer is fitted behind the dashboard centre front panel under the radio.

REMOVAL

REMOVAL PREPARATION OPERATION

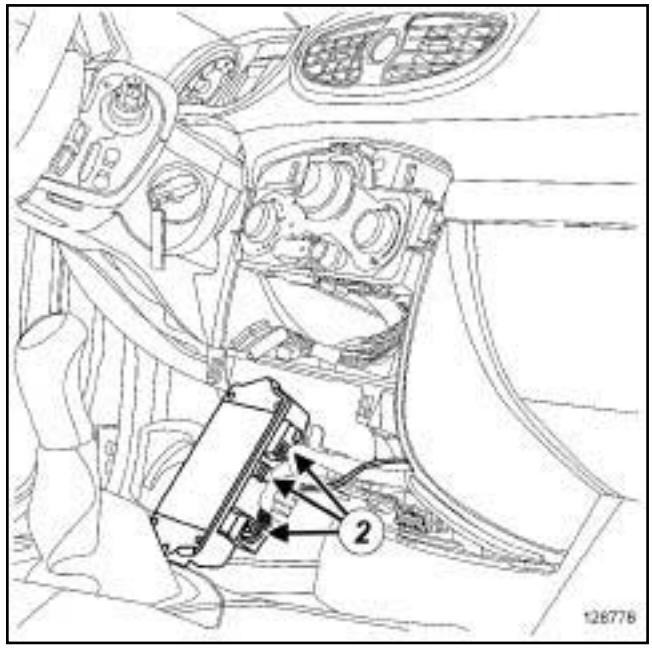
❏ Disconnect the battery (see **Battery: Removal - Refitting**) .

❏ Remove the dashboard centre front panel (see **Centre front panel: Removal - Refitting**)



128777

❏ Remove the computer (**1**) .



128778

❏ Disconnect the computer connectors (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Connect the computer connectors.

❏ Refit the computer.

II - FINAL OPERATION.

❏ Refit the dashboard centre front panel (see **Centre front panel: Removal - Refitting**)

❏ Connect the battery (see **Battery: Removal - Refitting**) .

❏ If replacing the computer, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (86B, Car phone).

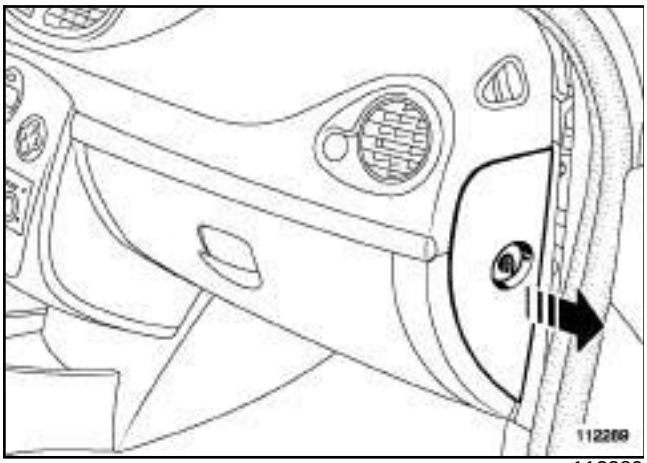
CAR PHONE PRE-EQUIPMENT or HANDS-FREE TELEPHONE KIT

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the computer (see **86B**, **Car phone**, **Computer: Removal - Refitting**, page **86B-3**) .

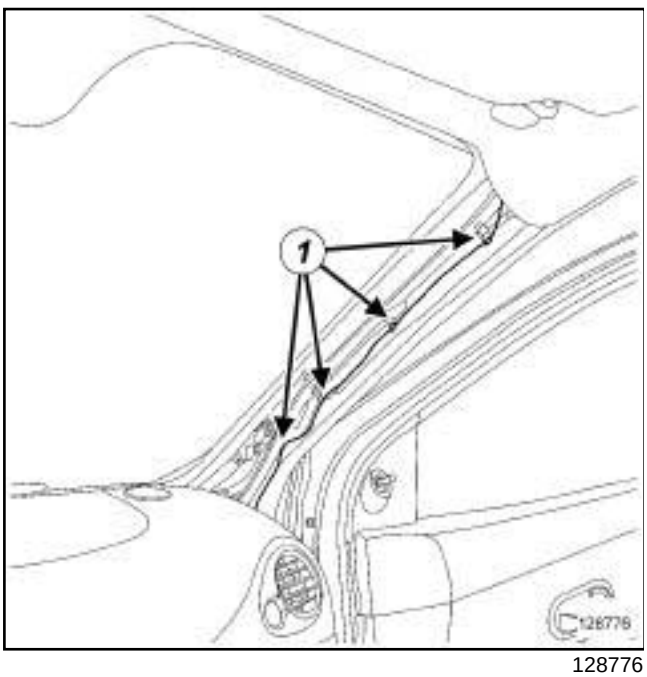


112289

❏ Unclip the dashboard side panel on the passenger side.

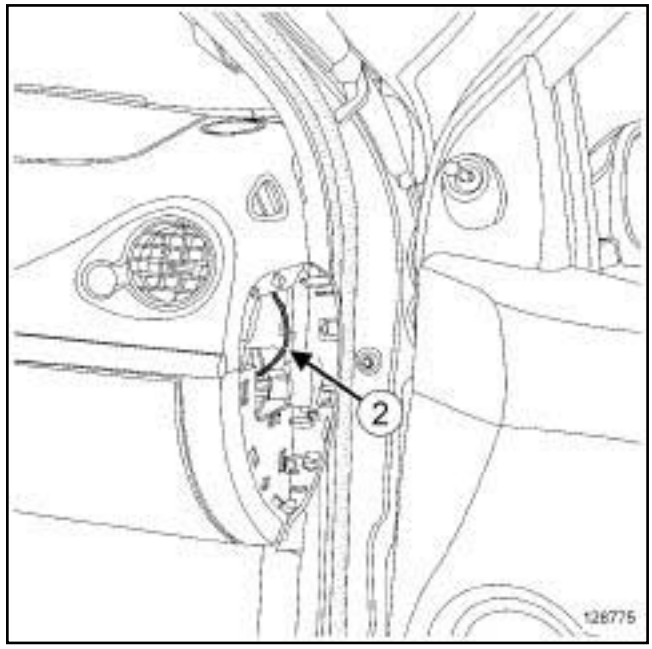
❏ Unclip the A-pillar trim on the passenger side (see **Windscreen pillar trim: Removal - Refitting**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



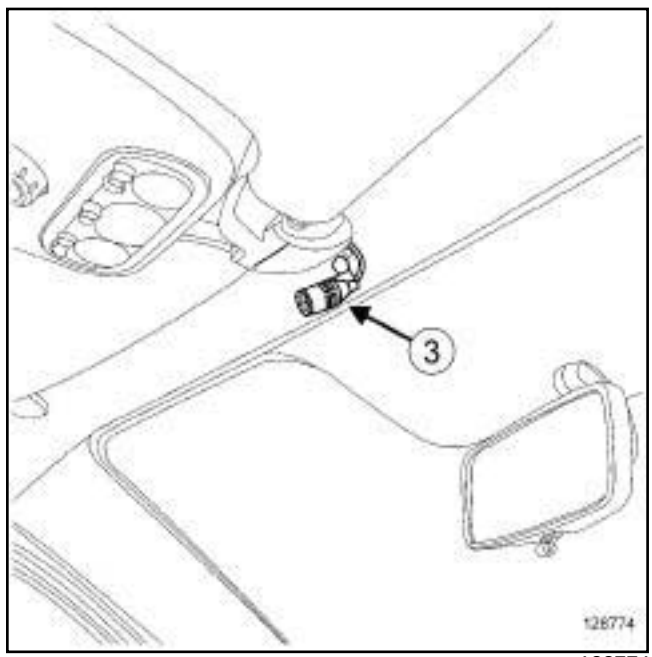
128776

❏ Remove the “hands-free” microphone wire from the A-pillar clips (**1**) .



128775

❏ Remove the “hands-free” microphone wire (**2**) from the dashboard side panel.



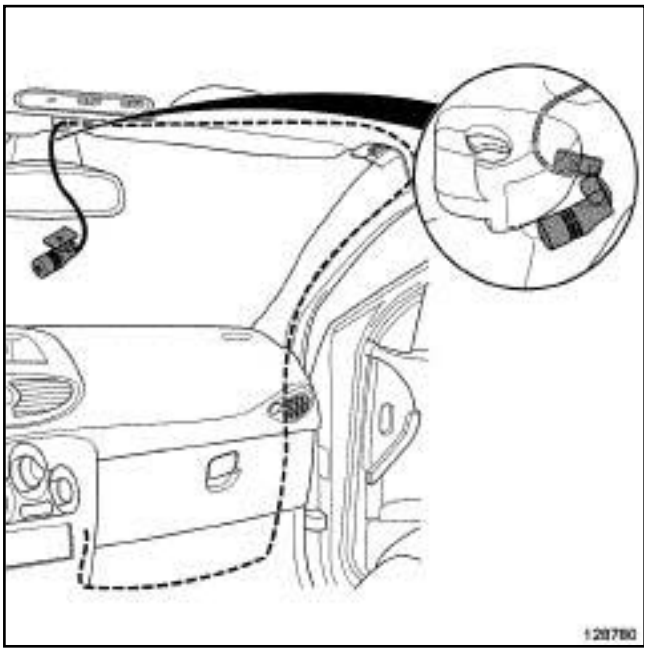
128774

❏ Remove the “hands-free” microphone (**3**) from the headlining.

CAR PHONE PRE-EQUIPMENT or HANDS-FREE TELEPHONE KIT

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



128780

❏ Refit the “hands-free” microphone with its wire as shown in the diagram above.

❏ Connect the “hands-free” microphone connector to the computer.

II - FINAL OPERATION.

❏ Clip:

- the A-pillar trim (see **Windscreen pillar trim: Removal - Refitting**) ,
- the dashboard side panel .

❏ Refit the computer (see **86B**, **Car phone**, **Computer: Removal - Refitting**, page **86B-3**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

RIGHT-HAND DRIVE

Equipment required
Diagnostic tool

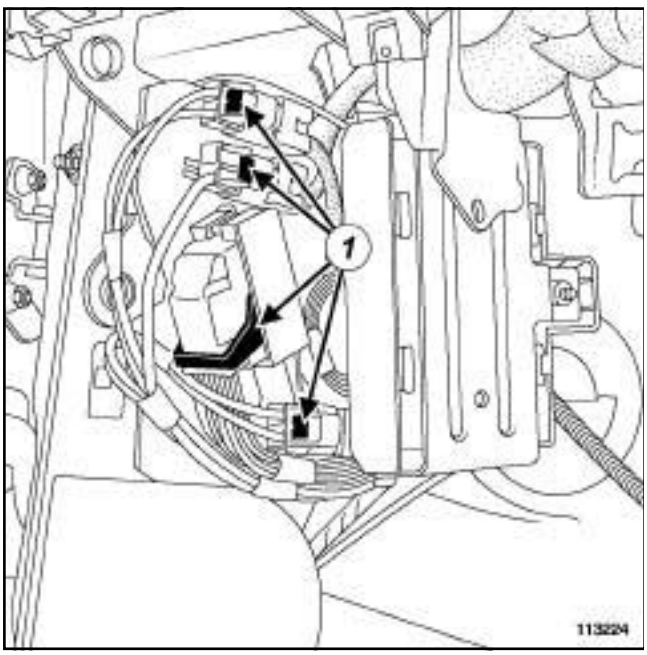
REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ If replacing the UCH, carry out the necessary programming using the **Diagnostic tool**. (see **Fault finding - Replacement of components**) (MR 394, 87B, Passenger compartment connection unit).

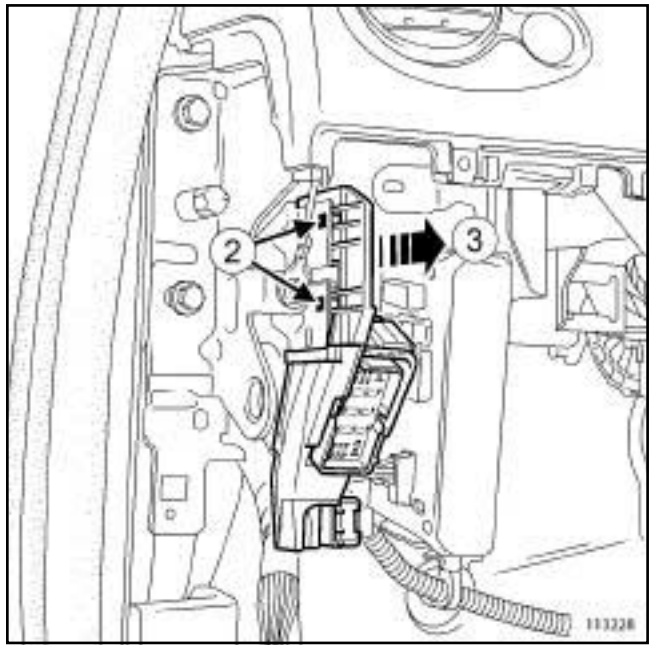
❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the storage compartment (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).



113224

❏ Unclip the connectors from the beam.



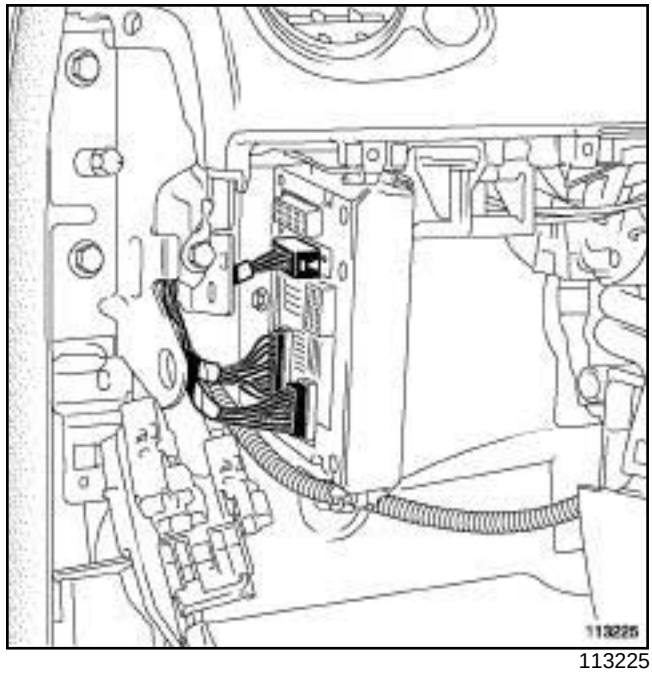
113228

❏ Unclip the connector mountings on the beam at (**2**) ,

❏ Remove the connector mountings at (**3**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

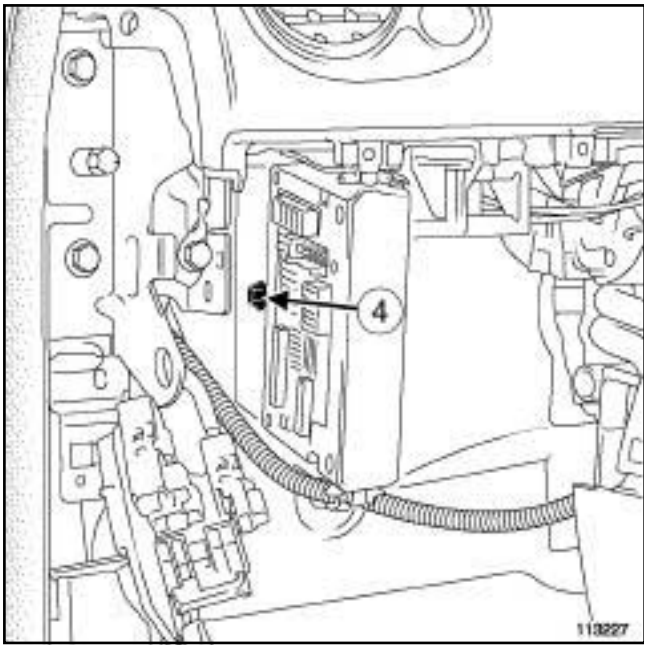
VEHICLE WITH KEY



113225

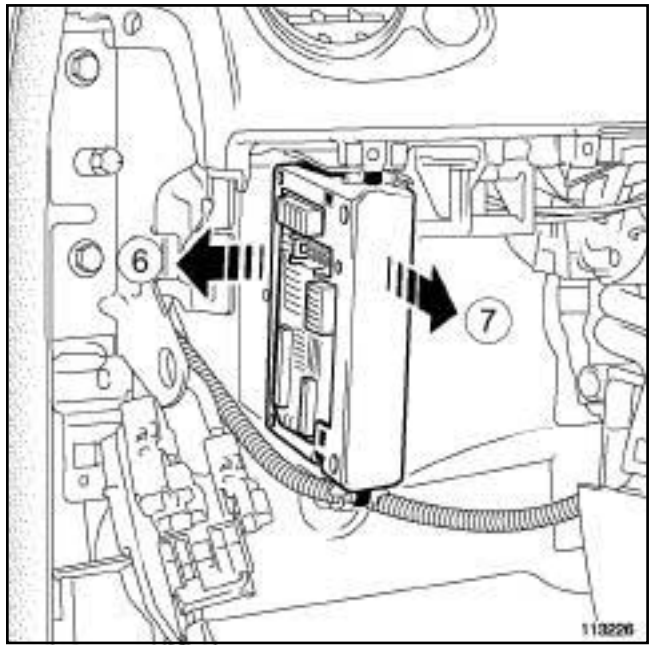
❏ Unclip the connectors.

RIGHT-HAND DRIVE



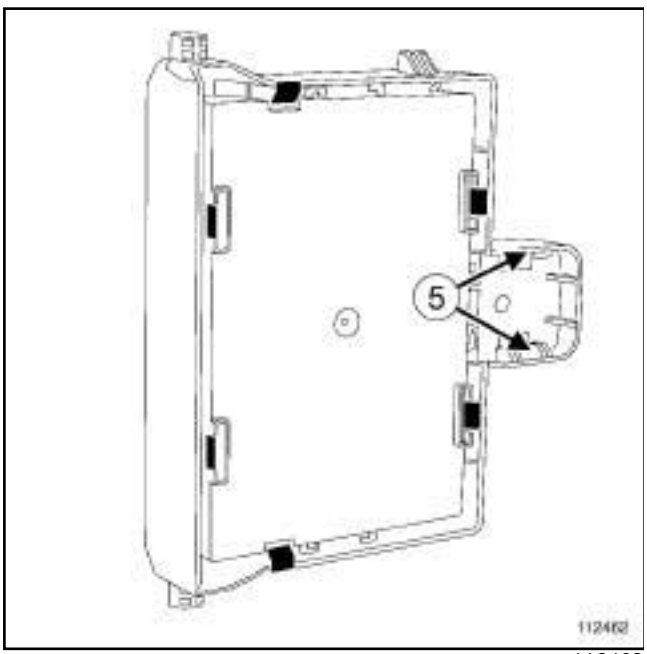
113227

❏ Remove the bolt (**4**) .



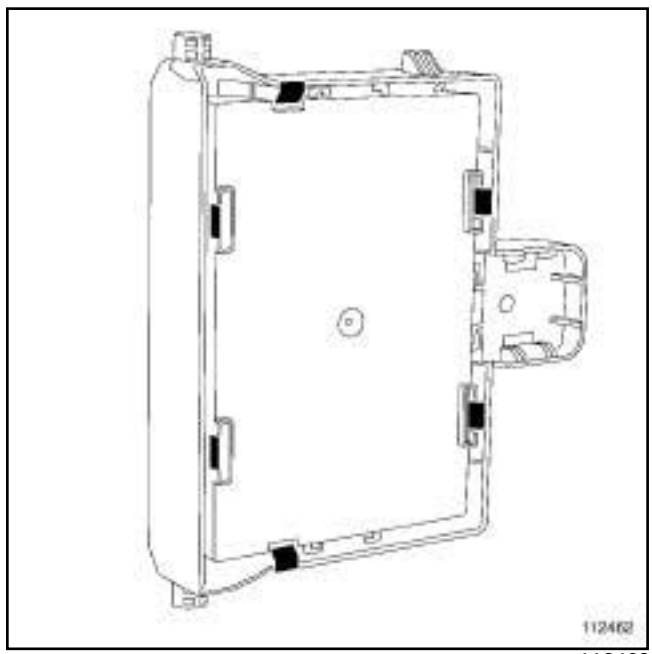
113226

❏ Remove the UCH at (**6**) , (**7**) .



112462

❏ Unclip the rear section of the UCH by pressing on the lugs (**5**) with a small flat-blade screwdriver.

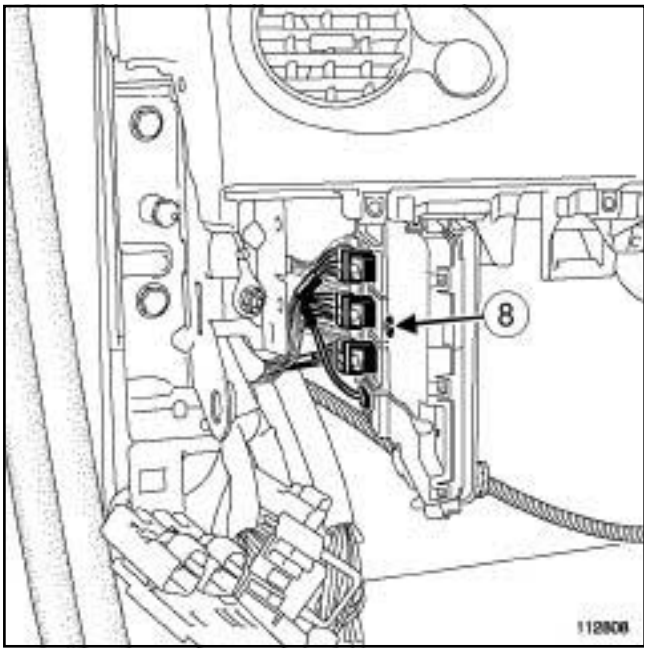


112462

❏ Unclip the UCH from its mounting.

RIGHT-HAND DRIVE

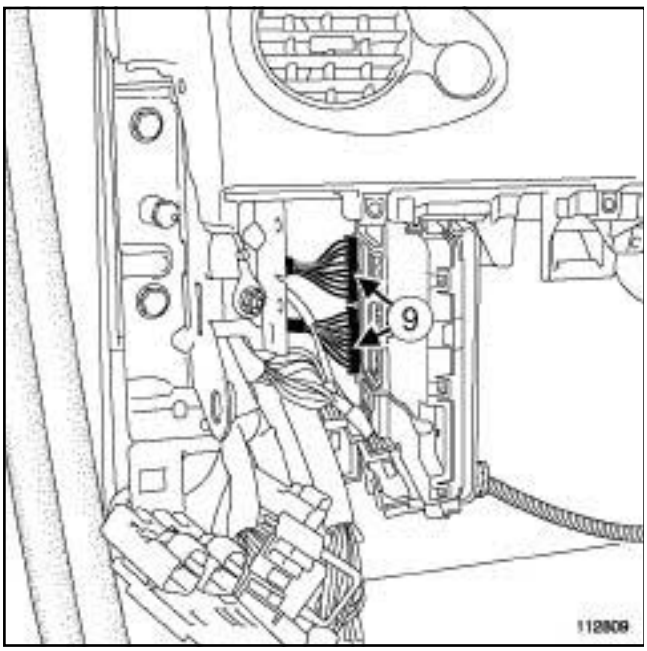
VEHICLE WITH CARD



112808

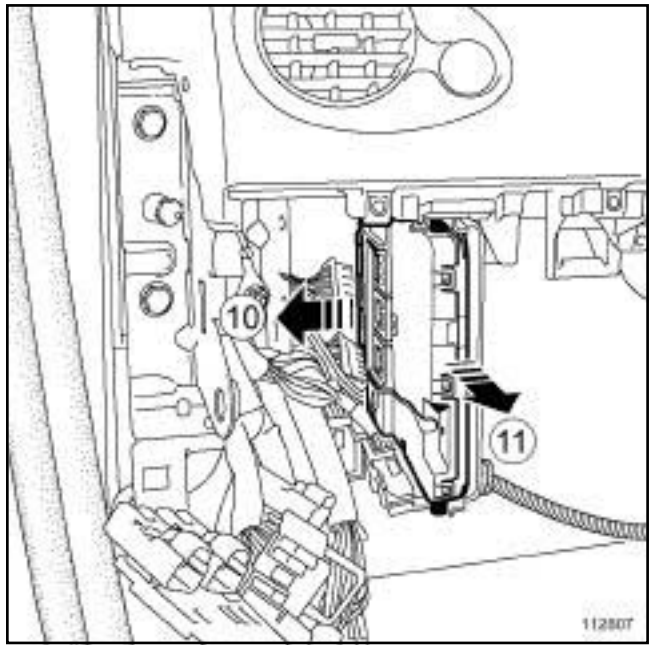
❏ Unclip the first row of connectors.

❏ Remove the bolt (**8**) .



112809

❏ Unclip the second row of connectors (**9**) .



112807

❏ Remove the UCH (**10**) , (**11**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

VEHICLE WITH KEY

❏ Fit the front section of the UCH,

❏ Clip the rear section of the UCH,

❏ Tighten the bolt ***(4)*** ,

❏ Clip the connectors in place.

VEHICLE WITH CARD

❏ Fit the UCH,

❏ Tighten the bolt ***(8)*** ,

❏ Clip the connectors in place.

RIGHT-HAND DRIVE

II - FINAL OPERATION.

❑ Clip:

- the connector mountings on the beam,
- the connectors.

❑ Refit the storage compartment (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ If replacing the UCH, carry out the necessary programming using the **Diagnostic tool**. (see **Fault finding - Replacement of components**) (MR 394, 87B, Passenger compartment connection unit).

LEFT-HAND DRIVE

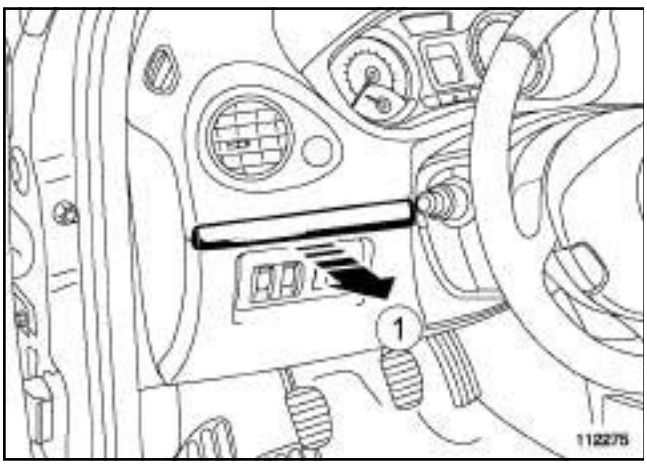
Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

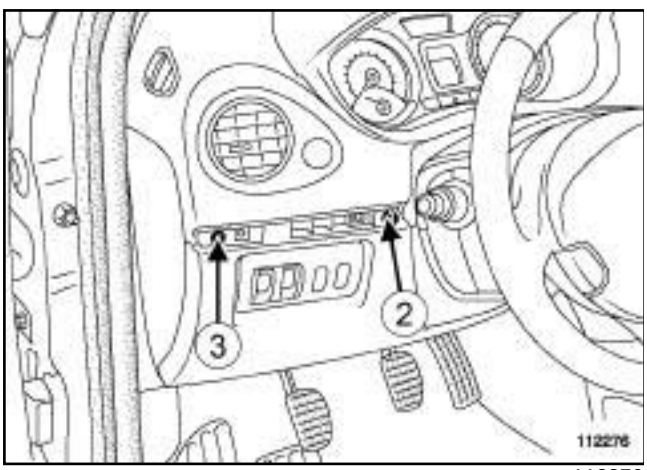
❏ When replacing the UCH, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 87B, Passenger compartment connection unit).

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .



112275

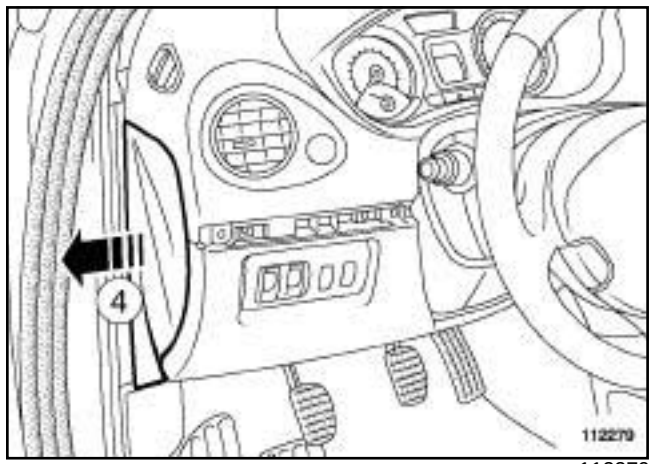
❏ Unclip the moulding at (**1**) .



112276

❏ Remove:

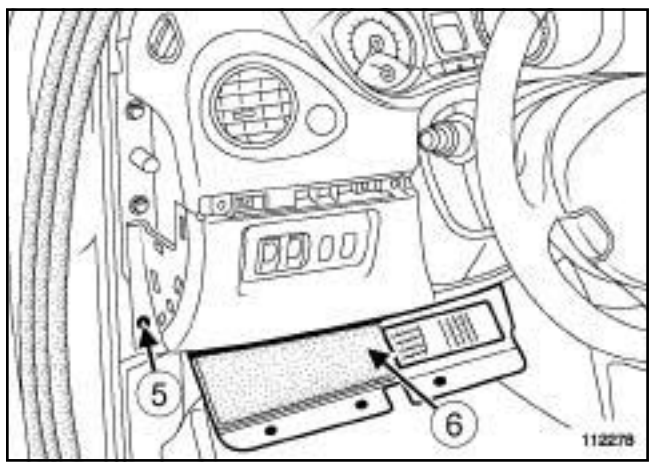
- the plastic rivet (**2**) ,
- bolt (**3**) .



112279

❏ Remove the door seal,

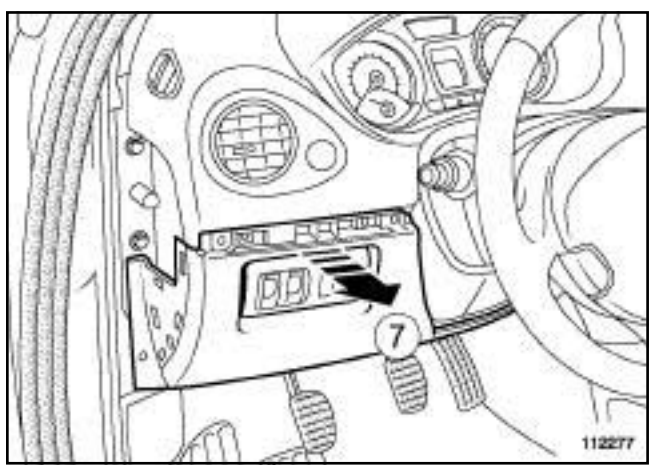
❏ Remove the dashboard side face (**4**) .



112278

❏ Remove:

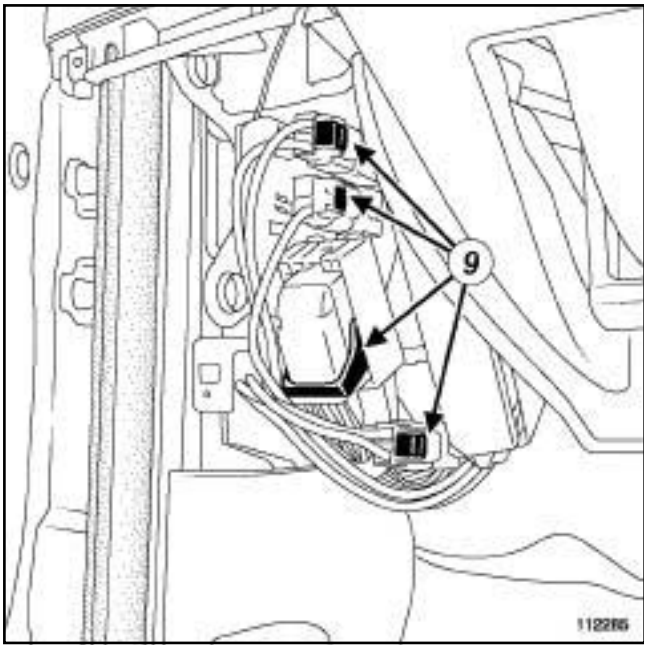
- the bolt (**5**) ,
- the dashboard lower trim (**6**) .



112277

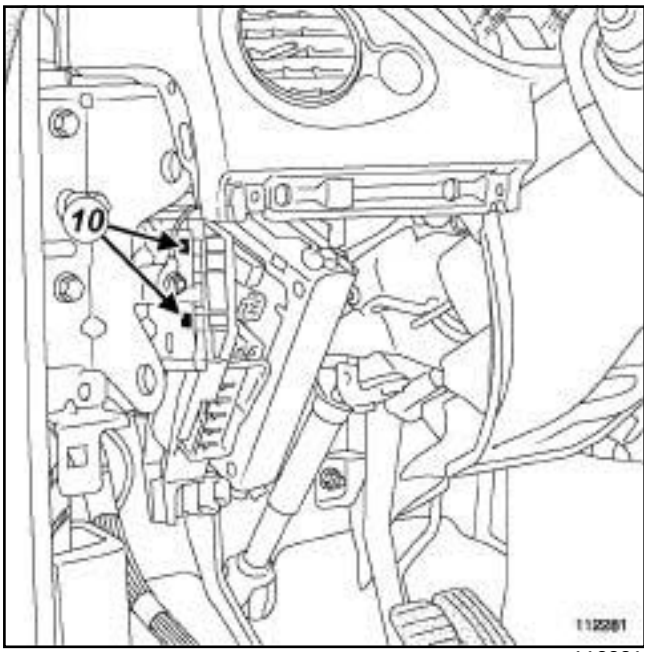
❏ Remove the dashboard trim (**7**) while unclipping the connectors.

LEFT-HAND DRIVE



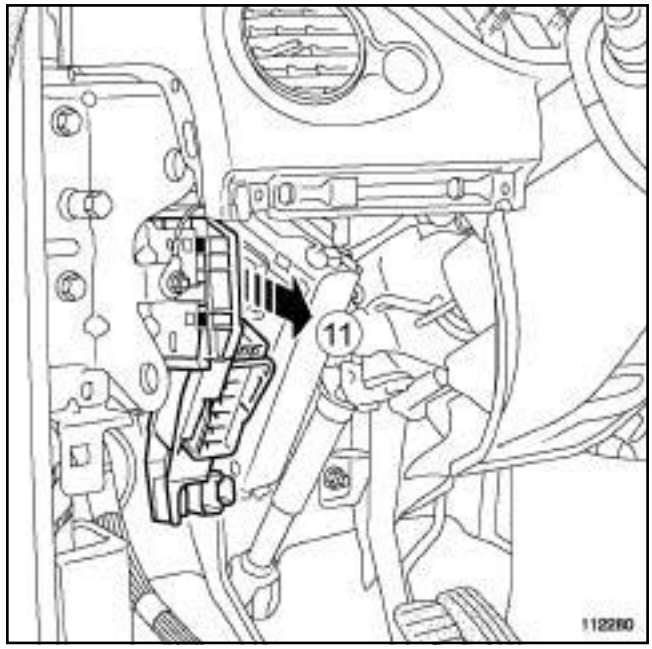
112285

❏ Unclip the connectors on the beam (**9**) .



112281

❏ Unclip the connector mountings on the beam at (**10**) .

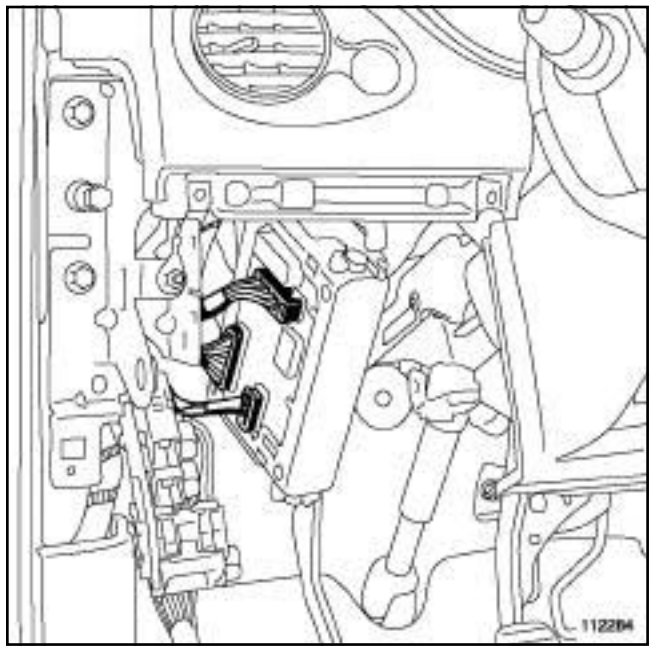


112280

❏ Remove the connector mountings at (**11**) .

II - REMOVAL STAGE FOR THE PART CONCERNED.

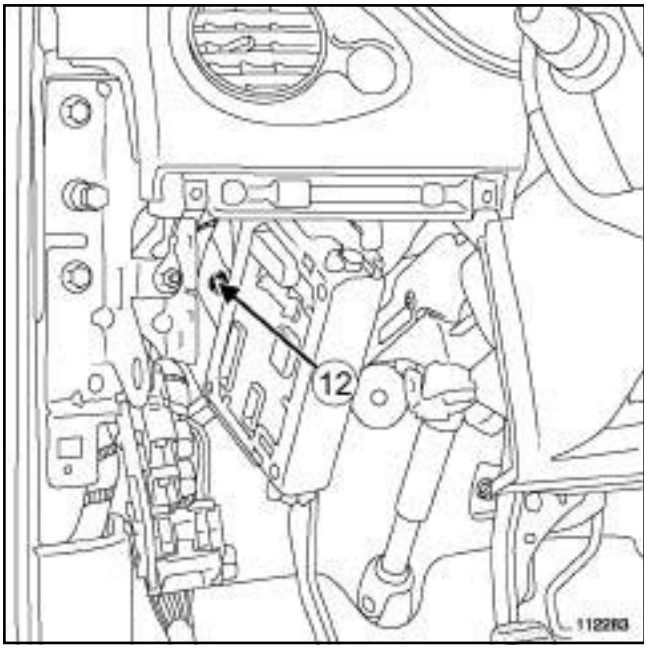
VEHICLE WITH KEY



112284

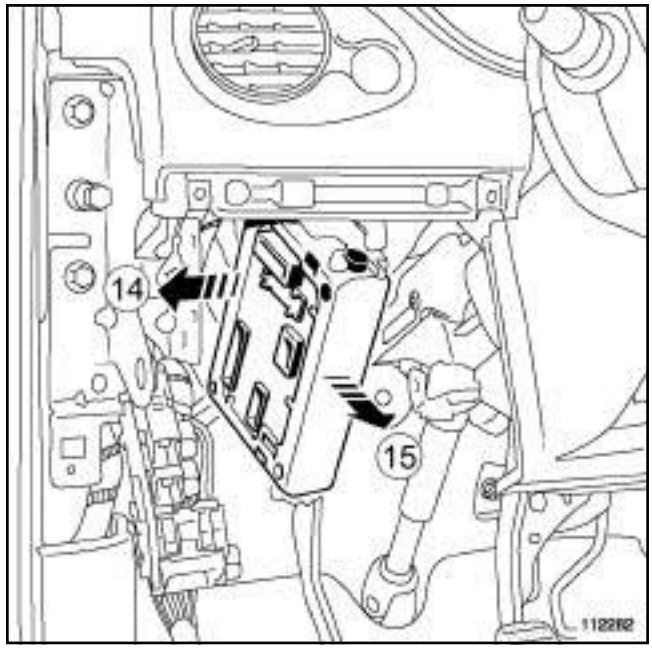
❏ Unclip the connectors.

LEFT-HAND DRIVE



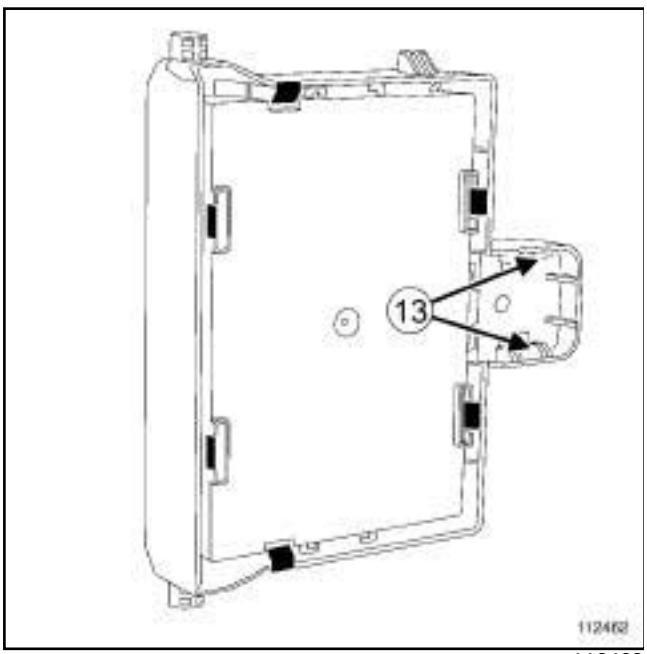
112283

❏ Remove the bolt (**12**) .



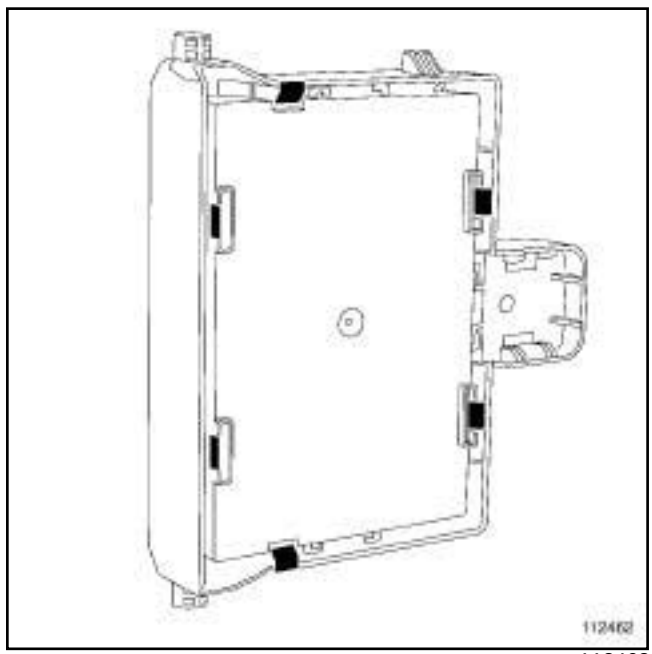
112282

❏ Remove the UCH at (**14**) , (**15**) .



112462

❏ Unclip the rear section of the UCH by pressing on the lugs (**13**) with a small flat-blade screwdriver.

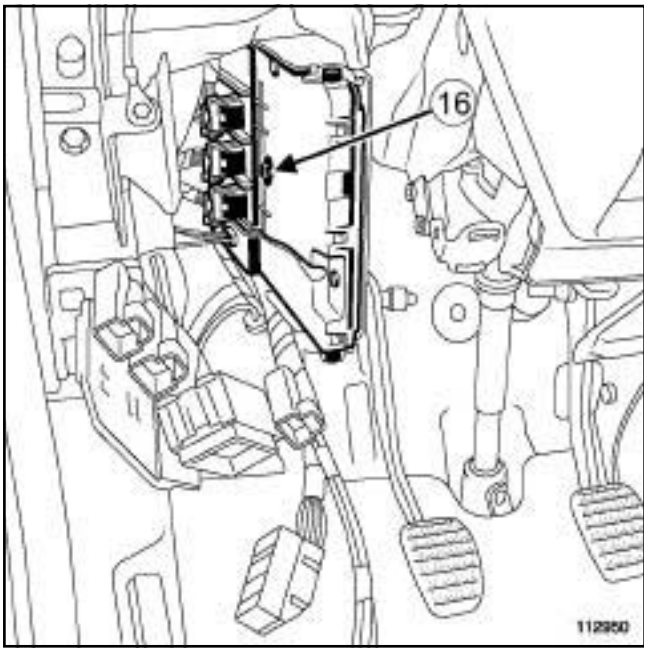


112462

❏ Unclip the UCH from its mounting.

LEFT-HAND DRIVE

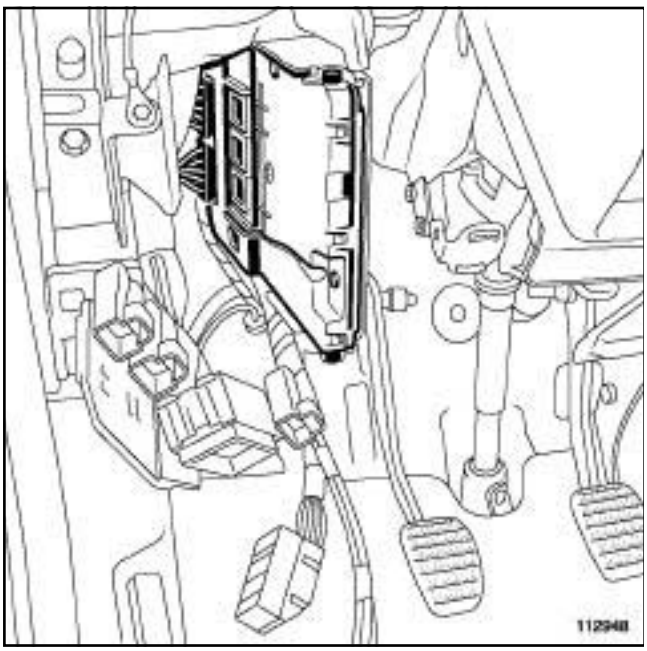
VEHICLE WITH CARD



112950

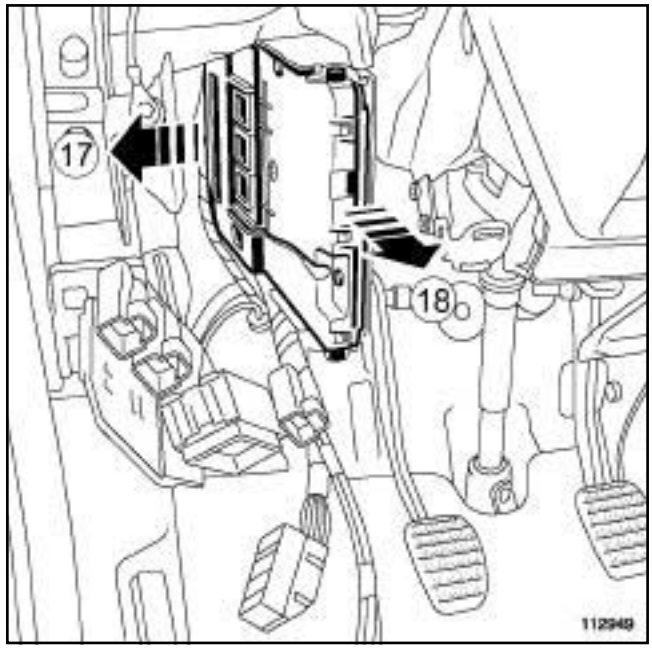
❏ Unclip the first row of connectors,

❏ Remove the bolt (**16**) .



112948

❏ Unclip the second row of connectors.



112949

❏ Remove the UCH (**17**) , (**18**) .

REFITTING

I - REFITTING STAGE FOR THE PART CONCERNED.

VEHICLE WITH KEY

❏ Fit the front section of the UCH,

❏ Clip the rear section of the UCH,

❏ Tighten the bolt ***(12)*** ,

❏ Clip the connectors in place.

VEHICLE WITH CARD

❏ Fit the UCH,

❏ Tighten the bolt ***(16)*** ,

II - FINAL OPERATION.

❏ Clip:

- the connector mountings on the beam,

LEFT-HAND DRIVE

- the connectors on the beam,
- the dashboard trim.

❏ Tighten the bolts ***(3)*** , ***(5)*** ,

❏ Clip:

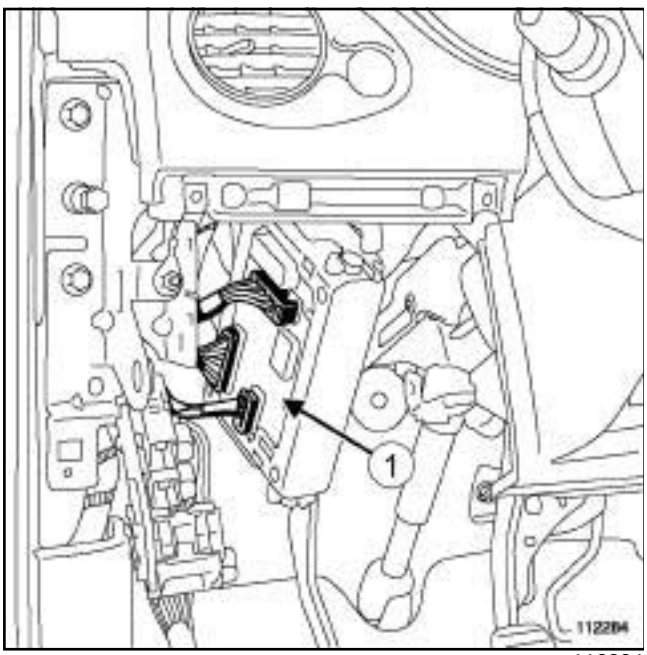
- the plastic rivet,
- the dashboard side panel,
- the dashboard moulding,
- the door seal,
- the dashboard lower trim ***(6)*** .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ If replacing the UCH, carry out the necessary programming using the **Diagnostic tool**. (see **Fault finding - Replacement of components**) (MR 394, 87B, Passenger compartment connection unit).

No.	Description
(1)	UCH
(2)	Renault card (simple or hands-free)
(3)	Key equipped with remote control locking
(4)	Locking - unlocking motor
(5)	Specific reception receivers in the handles and the rear bumper
(6)	Proximity and movement sensor
(7)	Locking button on the handles
(8)	Tailgate locking switch
(9)	Tailgate lock
(10)	Tailgate opening switch
(11)	Lock motor for the fuel filler flap
(12)	Central locking switch

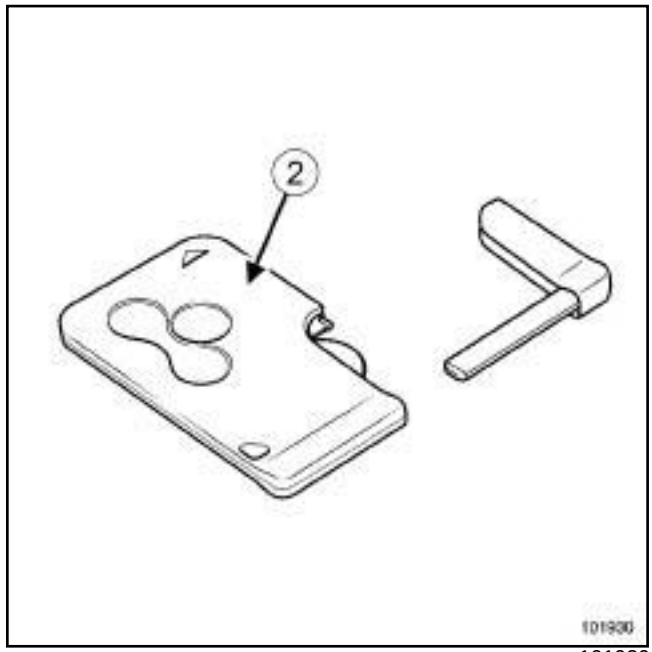
I - UCH



112284

UCH (**1**)

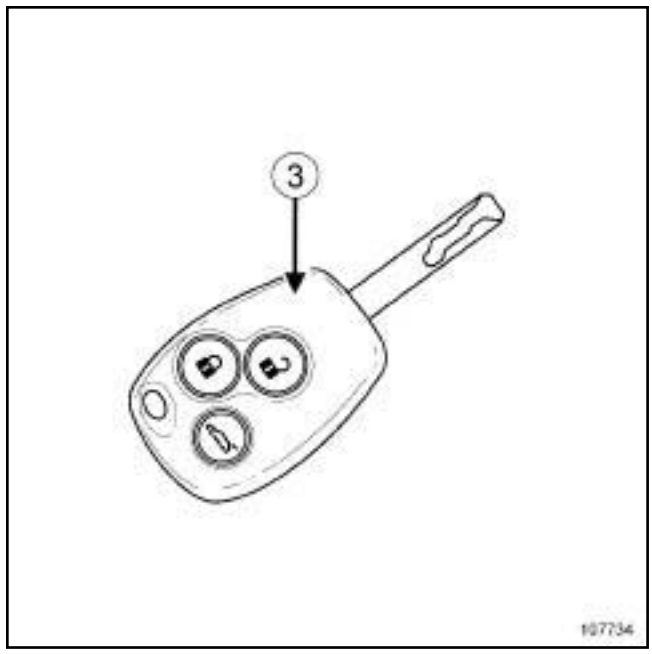
II - RENAULT CARD



101930

RENAULT card (**2**) (simple or hands-free)

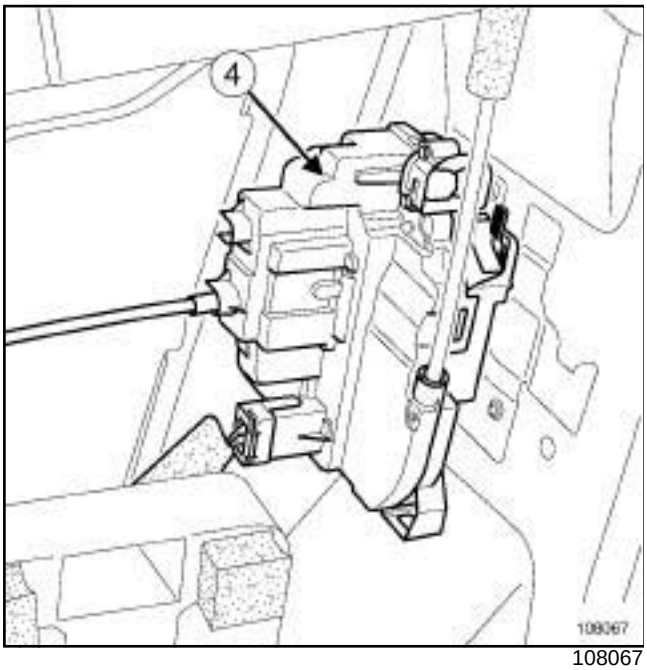
III - REMOTE CONTROL KEY



107734

Remote control key (**3**)

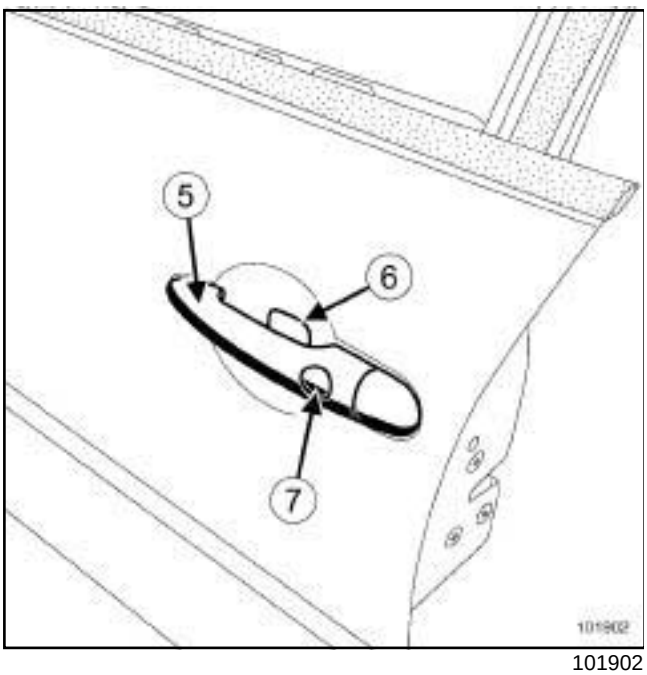
IV - DOOR LOCKING / UNLOCKING MOTOR



108067

Locking - unlocking motor integrated in the door locks (**4**)

V - OPENING RECEIVERS INTEGRATED IN HANDLES WITH HANDS-FREE FUNCTION AND THE REAR BUMPER

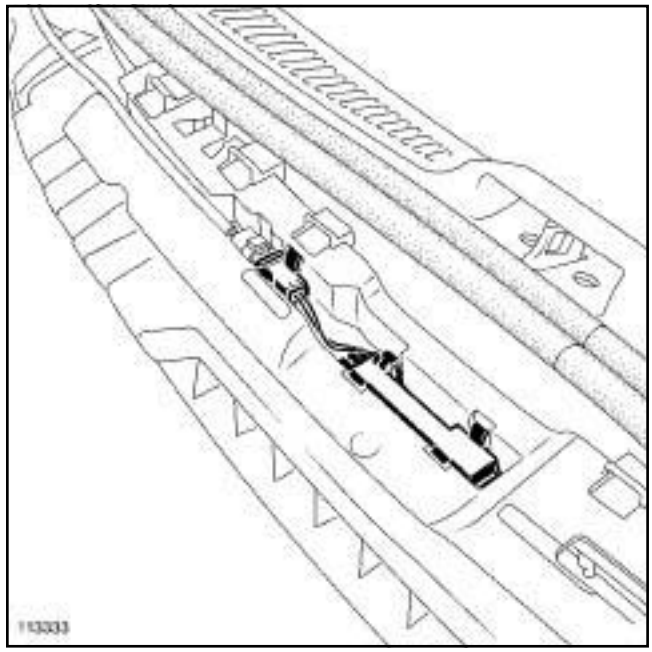


101902

Opening receiver integrated in the exterior handles (**5**) (hands-free version)

Presence and motion sensor (**6**) (hands-free version),

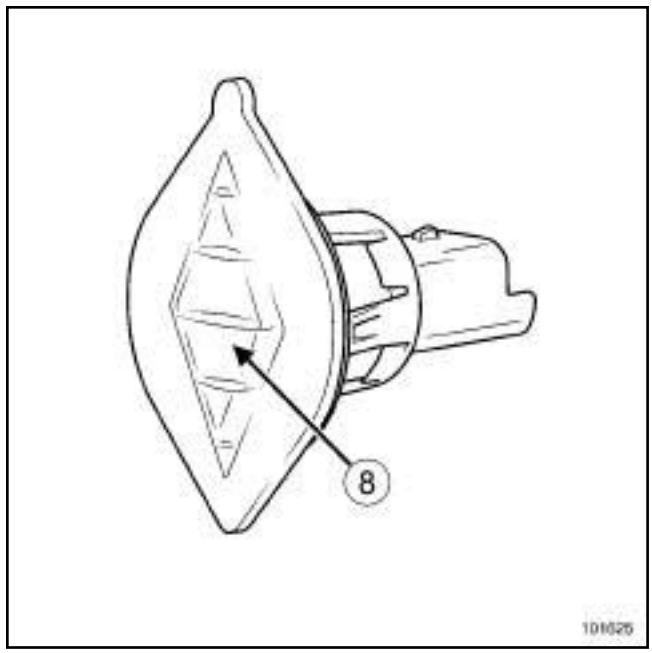
Locking button (**7**) (hands-free version)



113333

Opening receiver integrated in the rear bumper

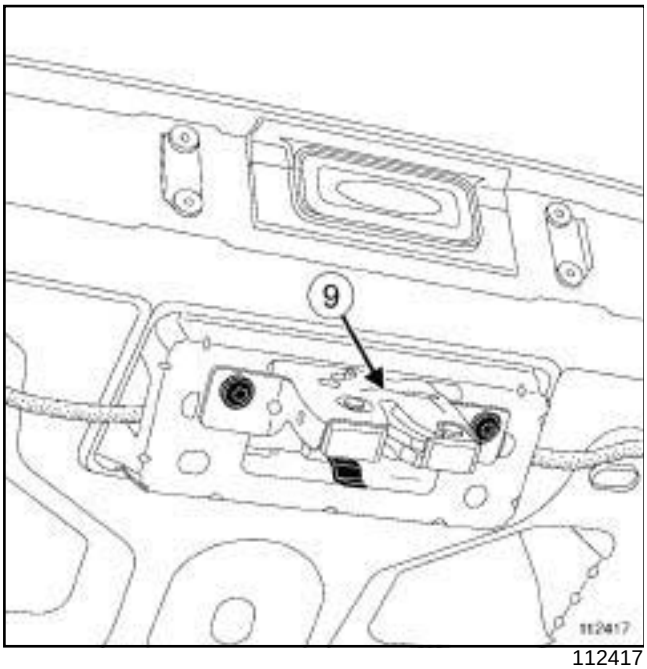
VI - HANDS-FREE TAILGATE SWITCH



101625

Tailgate locking switch (**8**) (hands-free version)

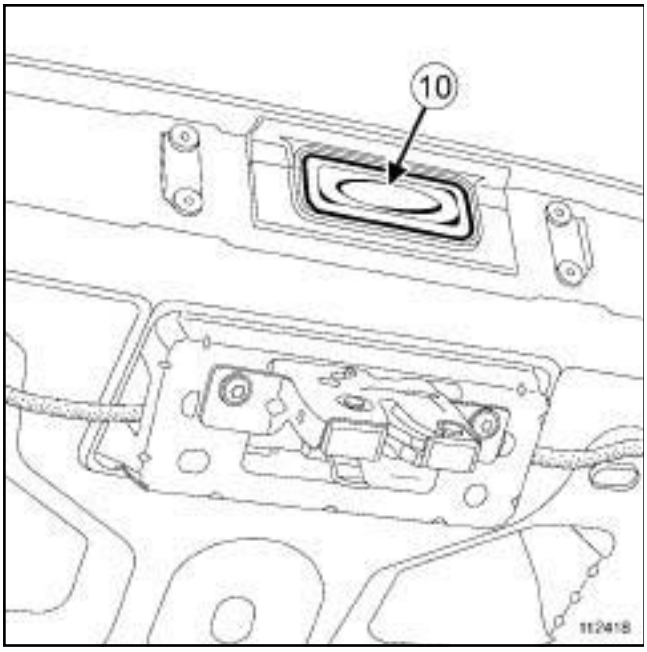
VII - TAILGATE LOCK



112417

Tailgate lock (**9**)

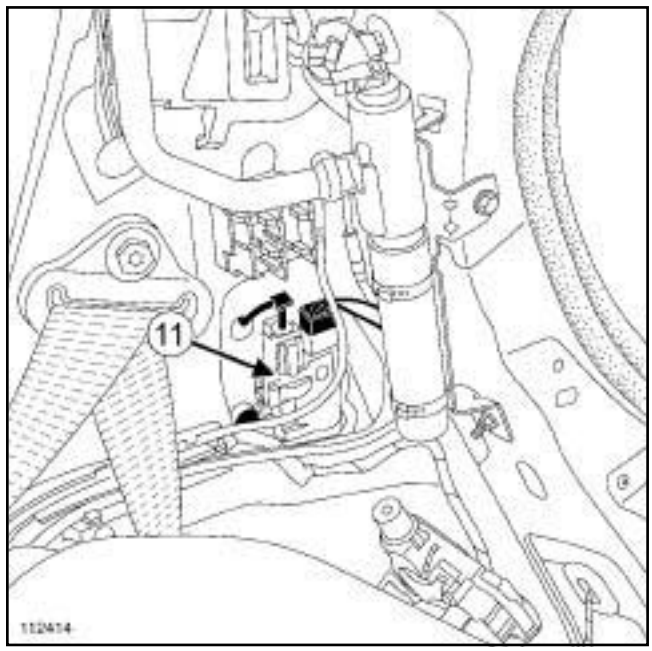
VIII - TAILGATE OPENING SWITCH



112418

Tailgate opening switch (**10**)

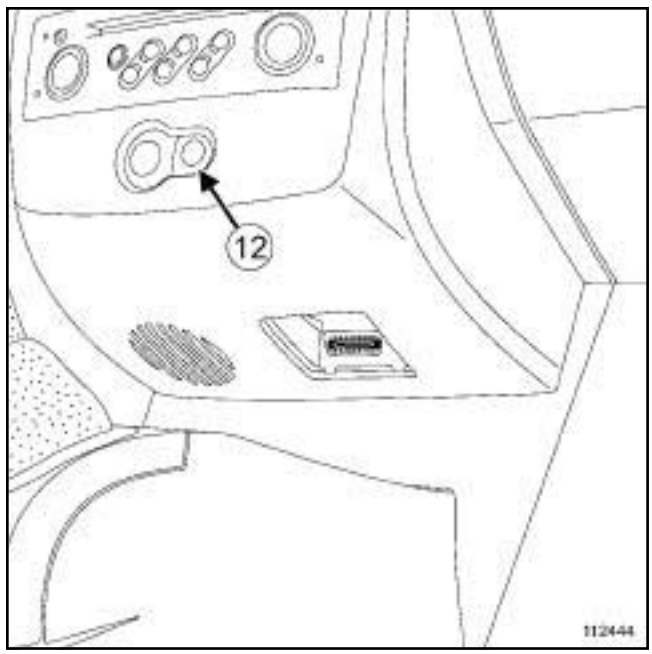
IX - LOCK MOTOR FOR THE FUEL FILLER FLAP



112414

Lock motor for the fuel filler flap (**11**)

X - CENTRAL LOCKING SWITCH

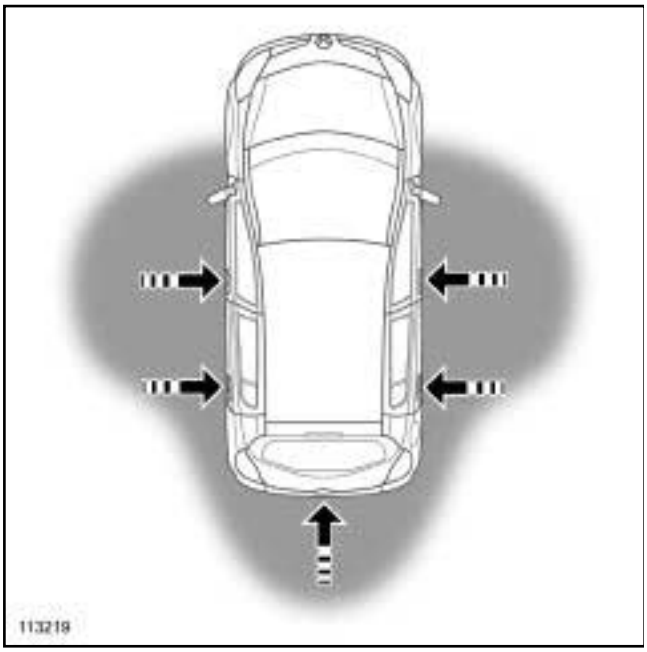


112444

Central door locking switch (**12**)

XI - LOCATION OF OPENING RECEIVERS AND COVERAGE ZONE

These receivers are only fitted to hands-free version vehicles.



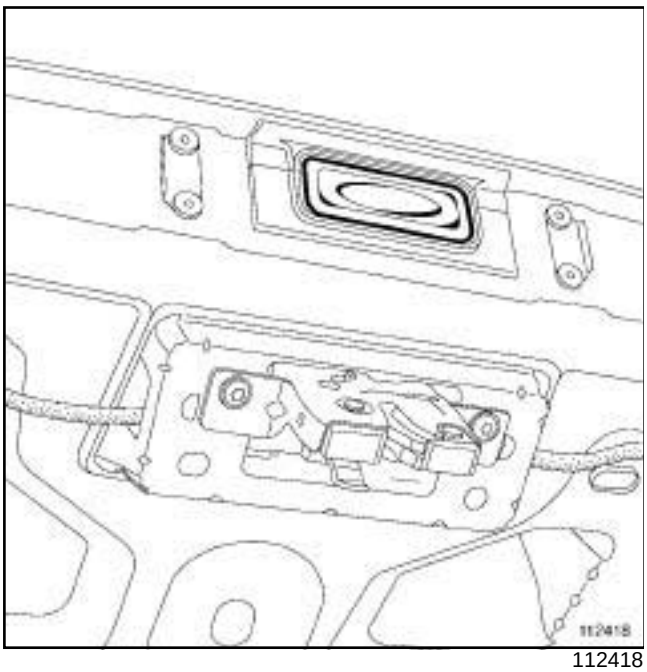
113219

REMOVAL

I - REMOVAL PREPARATION OPERATION

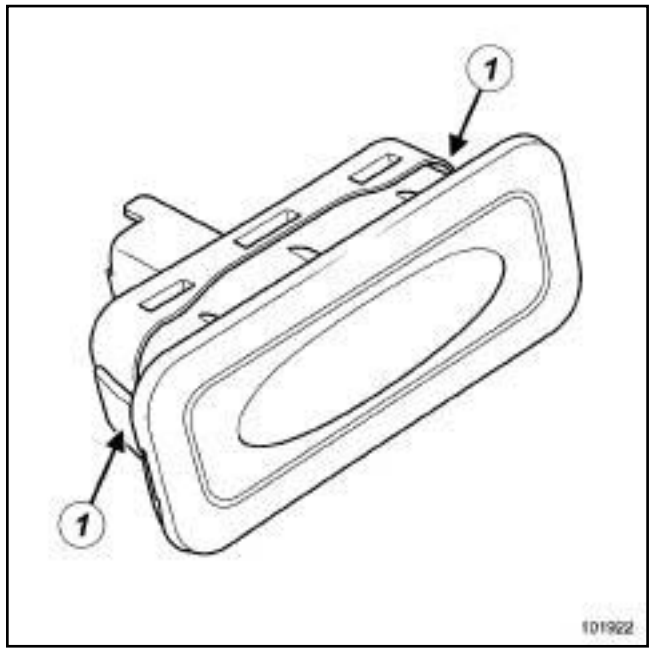
❑ Remove the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening element trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112418

❑ Access the control via the tailgate interior.



101922

❑ Squeeze the clips (**1**) .

❑ Take out the control.

❑ Disconnect the connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Connect the connector.

❑ Clip on the tailgate opening control.

II - FINAL OPERATION.

❑ Refit the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening element trim).

VEHICLE WITH CARD

Special tooling required	
Car. 1363	Set of trim removal levers.

REMOVAL

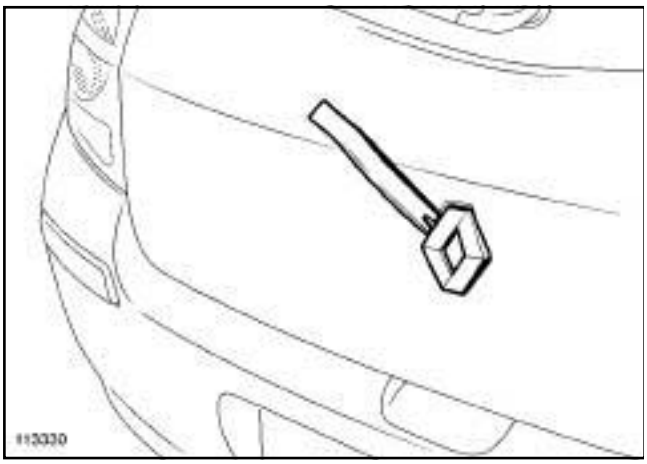
I - REMOVAL PREPARATION OPERATION

❑

Note:

The tailgate locking switch is only present on vehicles equipped with hands-free.

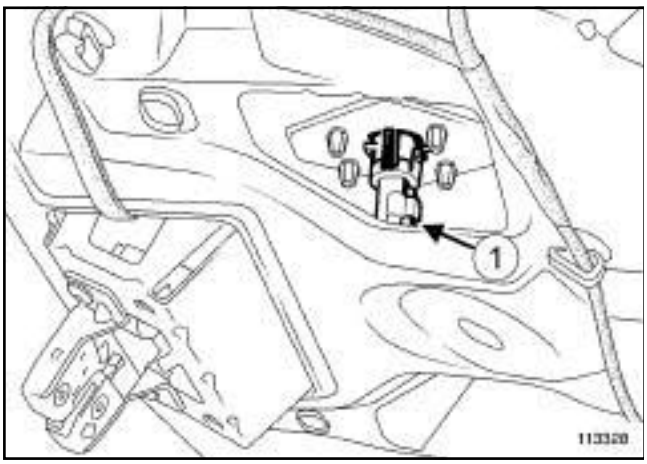
❑ Remove the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening element trim).



113330

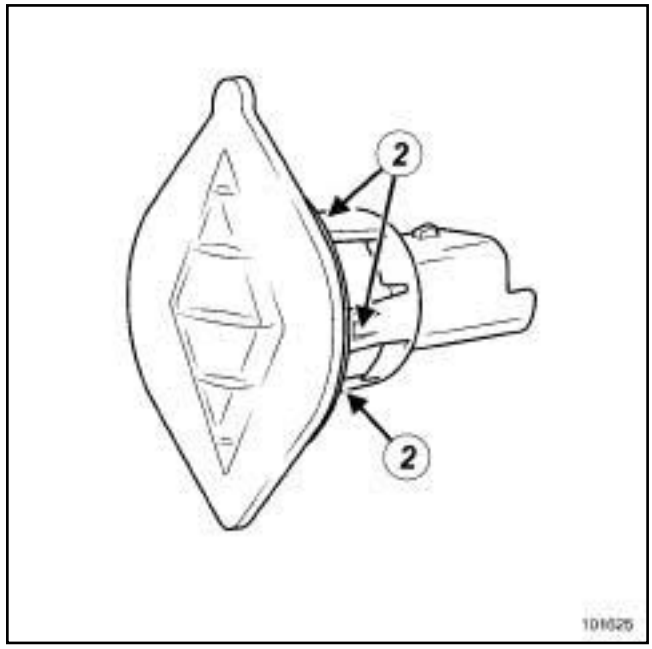
❑ Remove the badge using tool **(Car. 1363)**.

II - OPERATION FOR REMOVAL OF PART CONCERNED



113328

❑ Disconnect the connector (**1**) .



101625

❑ Squeeze the clips (**2**) and remove the switch towards the rear of the vehicle.

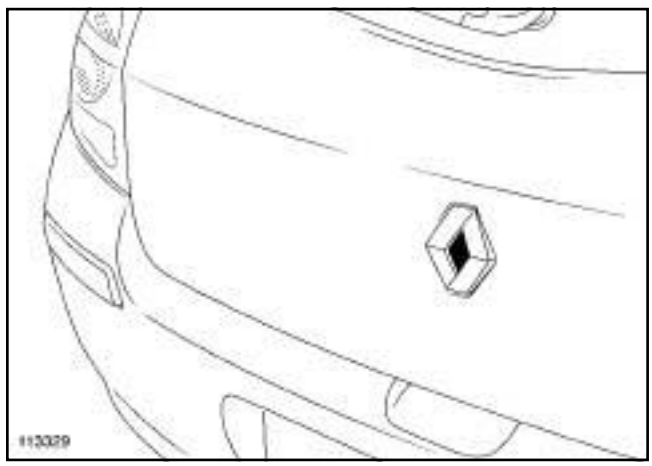
REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the switch.

❑ Connect the connector.

II - FINAL OPERATION.



113329

❑ Refit:

- the badge,

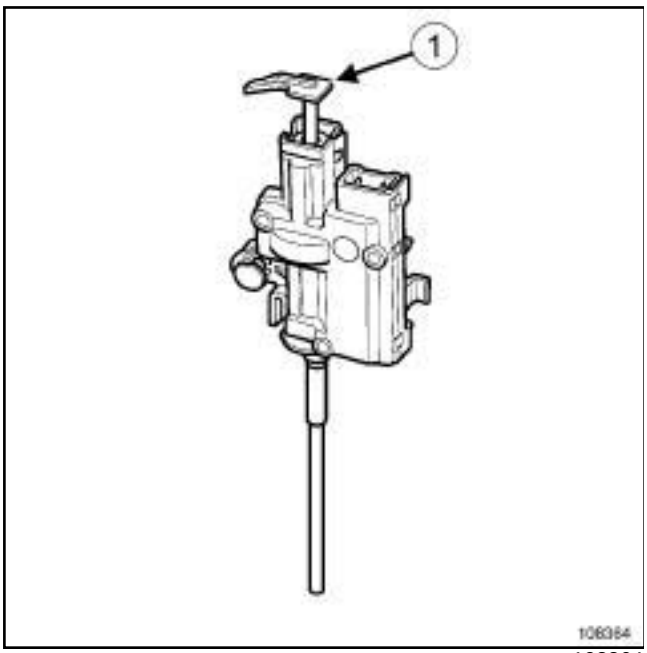
VEHICLE WITH CARD

- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim).

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).



108364

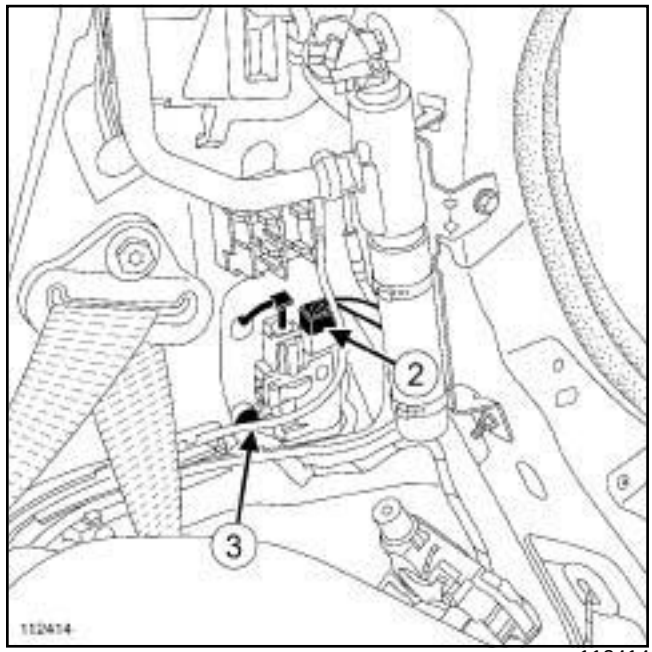
❑

Note:

During an electrical fault, activate the motor manually by raising the catch (**1**) .

❑ Check that the motor is in the correct position (fuel filler flap unlocked).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112414

❑ Disconnect the connector (**2**) .

❑ Unfasten clip (**3**) .

❑ Remove the motor.

REFITTING

I - REFITTING PART CONCERNED

❑ Refit the motor.

❑ Clip on the motor clip.

❑ Connect the connector.

II - FINAL OPERATION.

❑ Refit the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

VEHICLE WITH CARD

REMOVAL

I - REMOVAL PREPARATION OPERATION

1 - Opening aerials integrated in the door handles

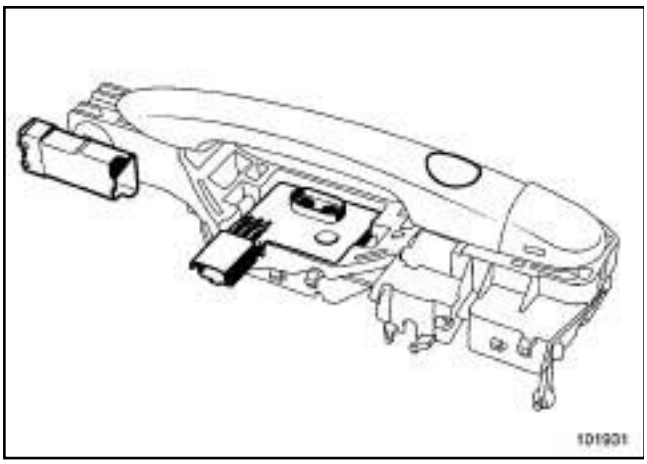
❑ Remove the door handle (see **Exterior door handle: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms).

2 - Opening receiver integrated in the rear bumper

❑ Remove the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED

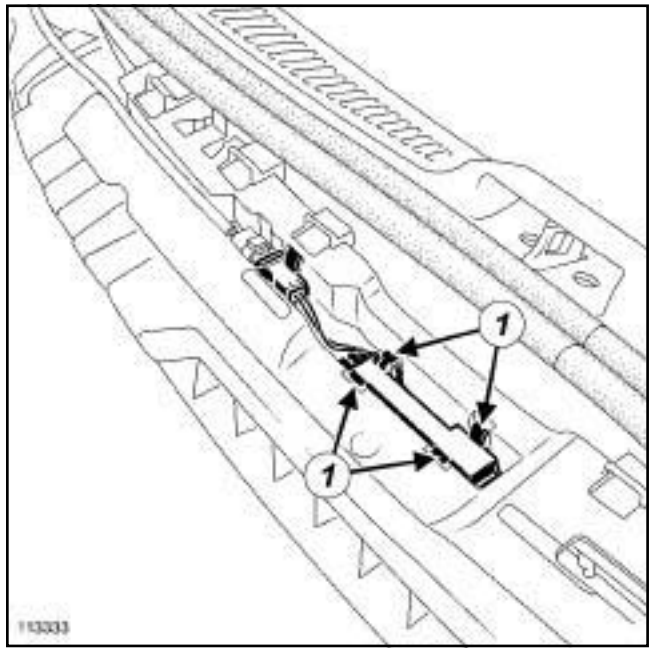
1 - Opening aerials integrated in the door handles



101931

❑ The handle - aerial - presence and movement sensor assembly cannot be dismantled.

2 - Opening receiver integrated in the rear bumper



113333

❑ Unclip the aerial by pushing the clips (**1**) .

❑ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

1 - Opening aerials integrated in the door handles

❑ Refit the door handle (see **Exterior door handle: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms).

2 - Opening receiver integrated in the rear bumper

❑ Connect the connector.

❑ Clip the aerial onto the bumper.

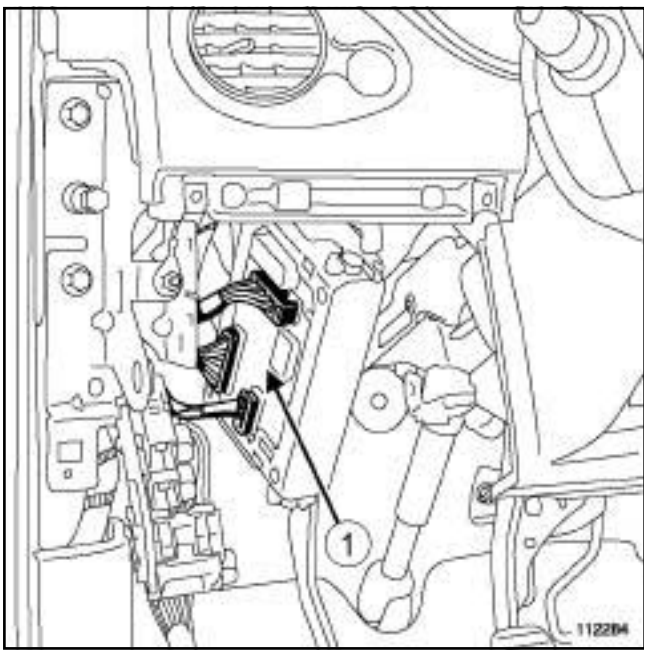
❑ Refit the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

Electric window: List and location of components

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL, and ELECTRIC REAR WINDOW

No.	Description
(1)	UCH
(2)	Driver's window lift switch board
(3)	Passenger window lift switch board
(4)	Rear window lift switch board

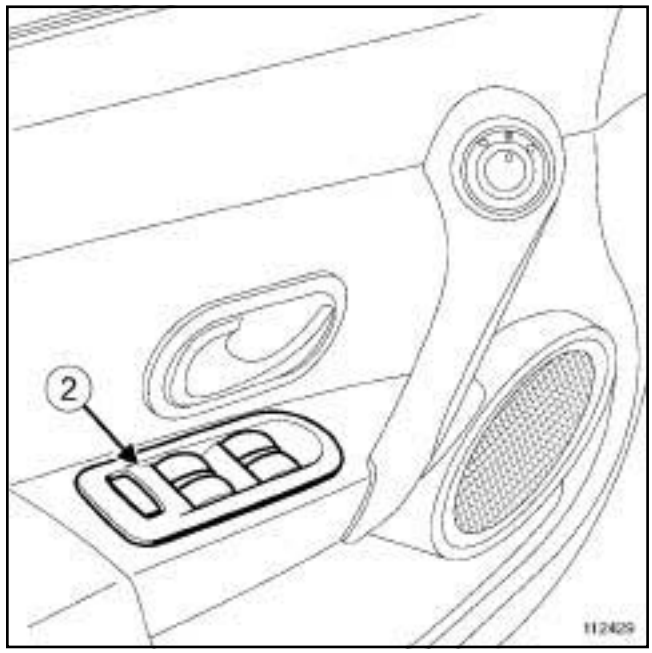
I - UCH



112284

UCH (**1**)

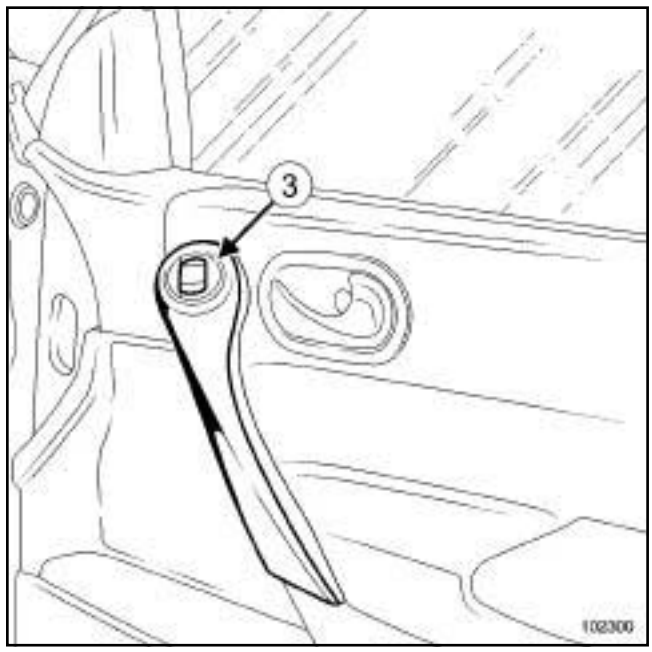
II - DRIVER'S WINDOW LIFT SWITCH BOARD



112429

Driver's window lift switch board (**2**)

III - PASSENGER WINDOW LIFT SWITCH BOARD

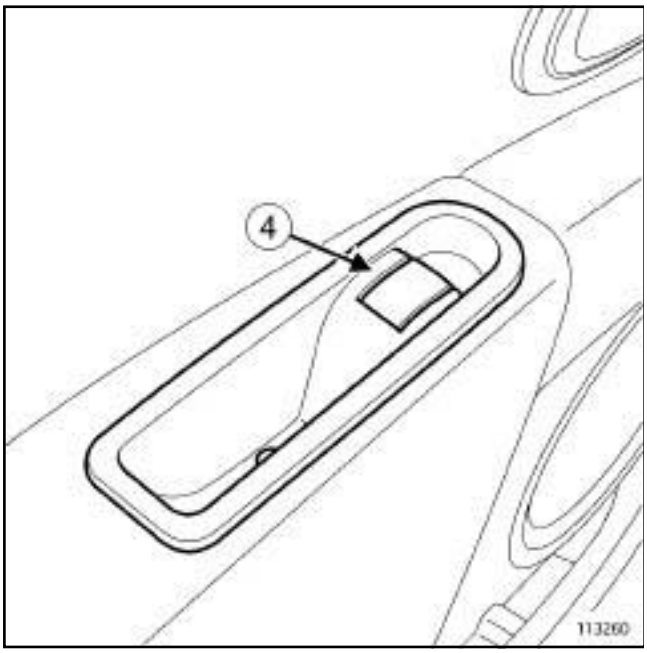


102300

Passenger window lift switch board (**3**)

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL, and ELECTRIC REAR WINDOW

IV - REAR WINDOW LIFT SWITCH BOARD



113260

Rear window lift switch board (**4**)

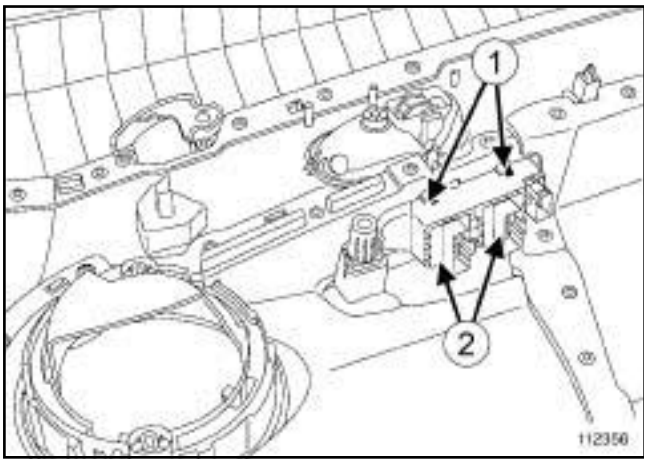
ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL

REMOVAL

I - REMOVAL PREPARATION OPERATION

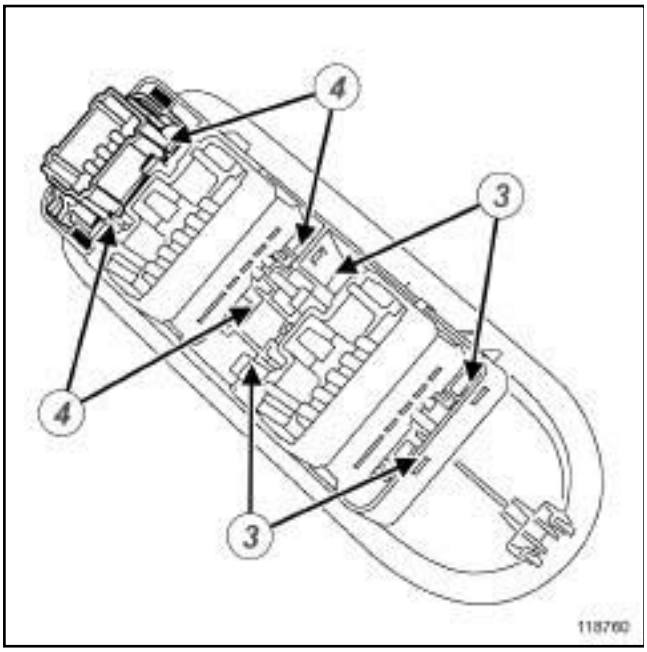
❏ Remove the driver's front side door trim (see **Front side door trim: Removal - Refitting**) (72A, Side opening element trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112356

❏ Remove the board by moving clips (**1**) and (**2**) .



118760

❏ Unclip the front electric window switches by pressing on the clips (**3**) .

❏ Unclip the rear electric window switches by pressing on the clips (**4**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the electric window switches onto the plate,
- the plate onto the front side door trim.

II - FINAL OPERATION.

❏ Refit the driver's front side door trim (see **Front side door trim: Removal - Refitting**) (72A, Side opening element trim).

Front electric window switch on passenger door: Removal - Refitting

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL

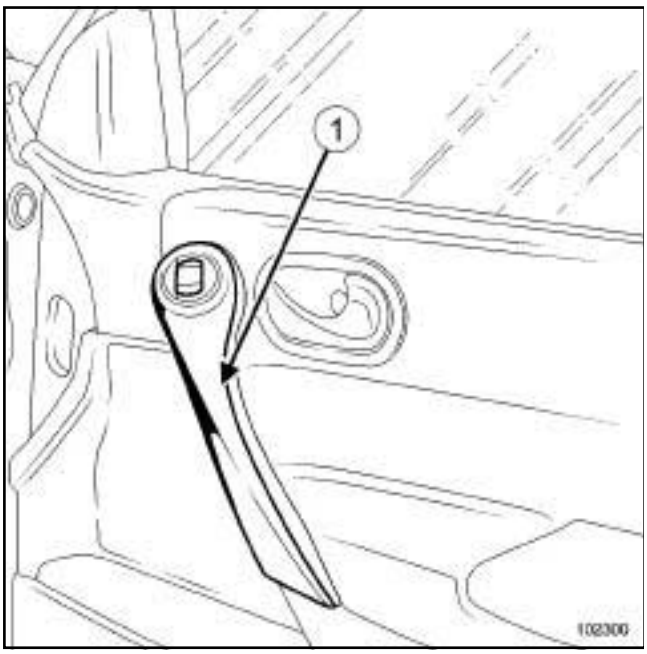
Special tooling required	
Car. 1363	Set of trim removal levers.

The front electric window switch (passenger side) is clipped to a plate.

The plate is clipped to the door trim.

REMOVAL

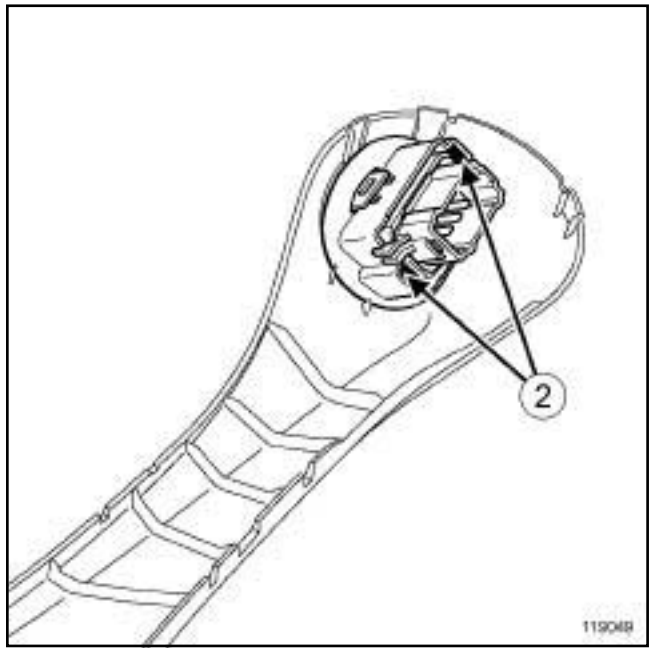
OPERATION FOR REMOVAL OF PART CONCERNED



102300

❏ Unclip the upper section (**1**) of the door handle using the **(Car. 1363)**.

❏ Disconnect the front electric window switch connector.



119049

❏ Unclip the front window switch from the door handle upper section by pressing the clips (**2**) .

❏ Remove the front door switch from the passenger door.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Clip the front window switch on the door handle upper section.

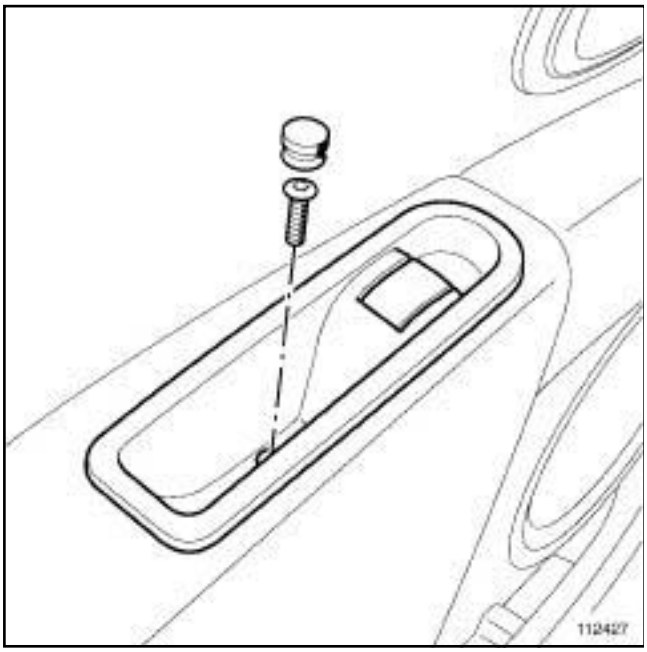
❏ Connect the front electric window switch connector.

❏ Clip on the upper section of the door handle.

B85 or K85, and ELECTRIC REAR WINDOW

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



112427

❏ Remove:

- the blanking cover using a small flat-blade screwdriver,
- the board mounting bolt.

❏ Extract the board towards the front.

❏ Disconnect the connector.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connector.

❏ Refit the board inserting it from the rear.

❏ Refit:

- the board mounting bolt,
- the blanking cover.

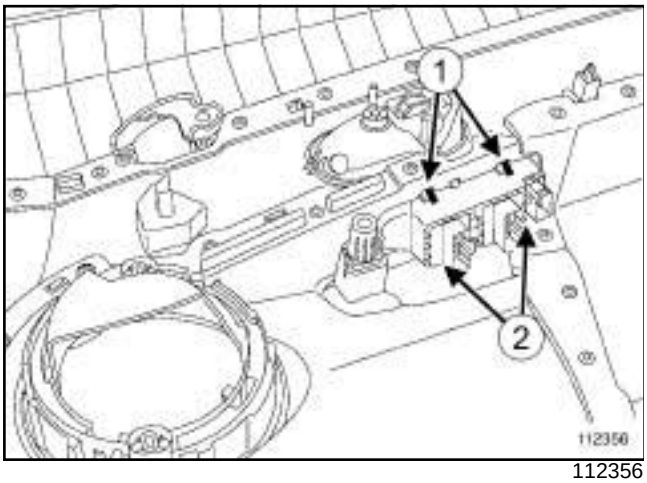
B85 or K85, and ELECTRIC REAR WINDOW

REMOVAL

I - REMOVAL PREPARATION OPERATION

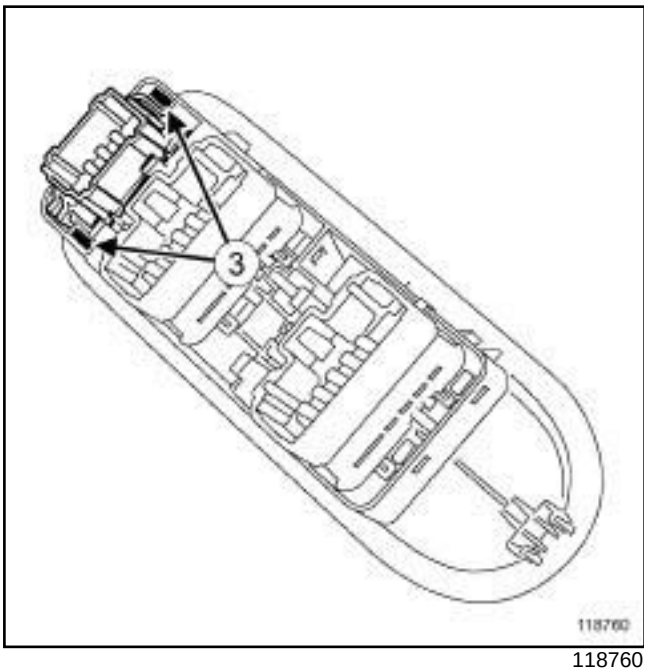
❑ Remove the driver's front side door trim (see **Front side door trim: Removal - Refitting**) (72A, Side opening element trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112356

❑ Remove the board by moving clips (**1**) and (**2**) .



118760

❑ Remove the child safety switch by pressing on the clips (**3**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the child safety switch on the plate,
- the plate onto the front side door trim.

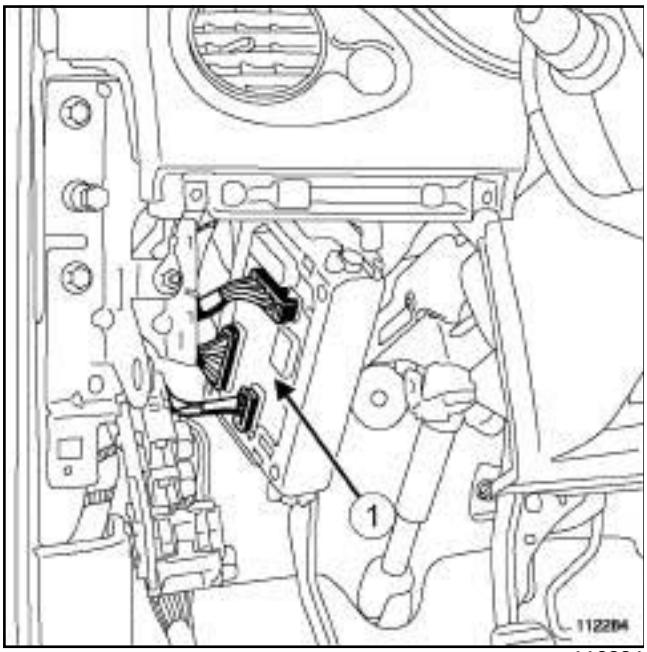
II - FINAL OPERATION.

❑ Remove the driver's front side door trim (see **Front side door trim: Removal - Refitting**) (72A, Side opening element trim).

PANORAMIC SUNROOF

No.	Description
(1)	UCH
(2)	Sunroof mobile glass
(3)	Sunroof open and close switch
(4)	Sunroof motor/computer

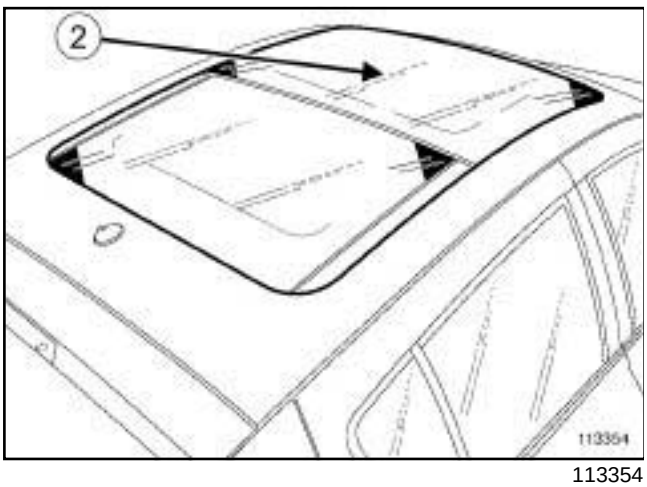
I - UCH



112284

UCH (**1**) .

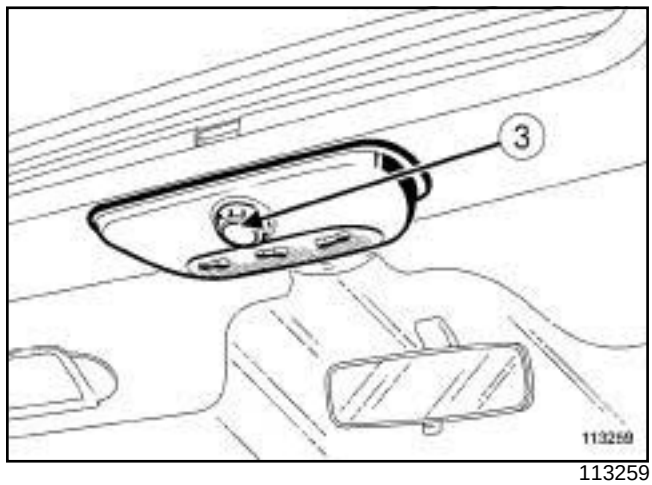
II - SUNROOF MOBILE GLASS



113354

Sunroof mobile glass (**2**) .

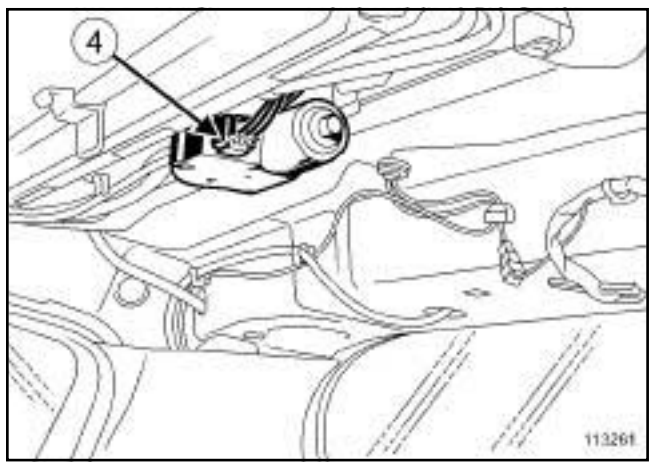
III - SUNROOF OPEN AND CLOSE SWITCH



113259

Sunroof open and close switch (**3**) .

IV - SUNROOF MOTOR/COMPUTER



113261

Sunroof motor/computer, located towards the rear of the roof (**4**) .

PANORAMIC SUNROOF

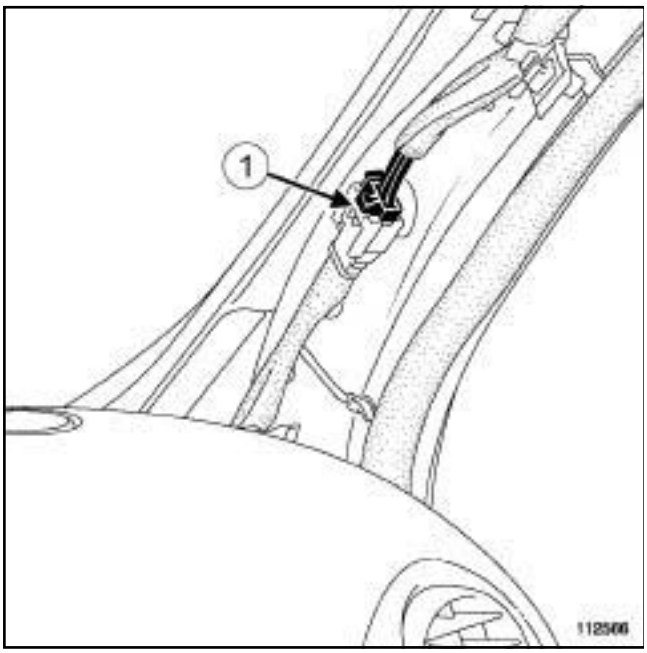
Tightening torques ▽	
motor bolts	**4 N.m**

REMOVAL

I - REMOVAL PREPARATION OPERATION

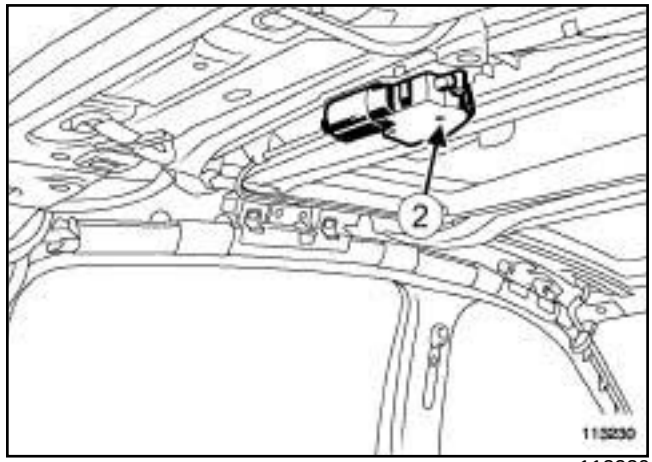
❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) (MR 392, 80A, Battery).

❏ Remove the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).



112566

❏ Disconnect the sunroof supply and control connector (**1**) .



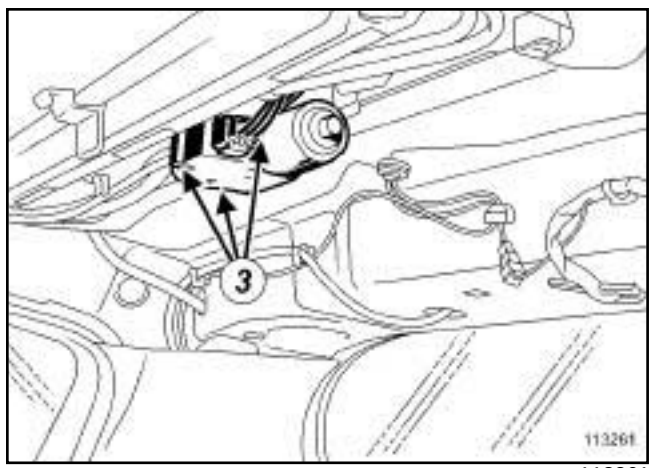
113230

❏

Note:

If there is an electrical fault with the motor, it is possible to move the sunroof manually (**2**) using an Allen key.

II - OPERATION FOR REMOVAL OF PART CONCERNED



113261

❏ Disconnect the connector.

❏ Remove:

- the motor bolts (**3**) ,
- the motor.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the motor.

PANORAMIC SUNROOF

❑ Torque tighten the **motor bolts (4 N.m)**.

❑ Connect the connector.

II - FINAL OPERATION.

❑ Refit the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

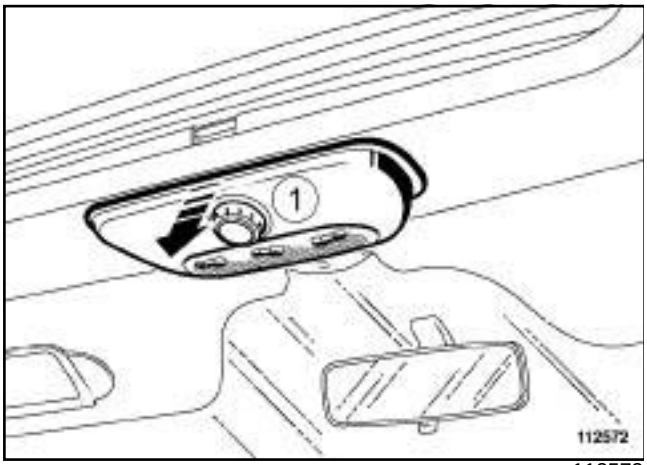
❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) (MR 392, 80A, Battery).

❑ Carry out the necessary operations without the diagnostic tool (see **Battery: Initialisation**) (MR 394, 80A, Battery).

PANORAMIC SUNROOF

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



112572

❏ Unclip the roof opening control using a flat-blade screwdriver (**1**) .

❏ Disconnect the connectors.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Connect the connectors.

❏ Clip the sunroof opening control.

REAR PROXIMITY RADAR

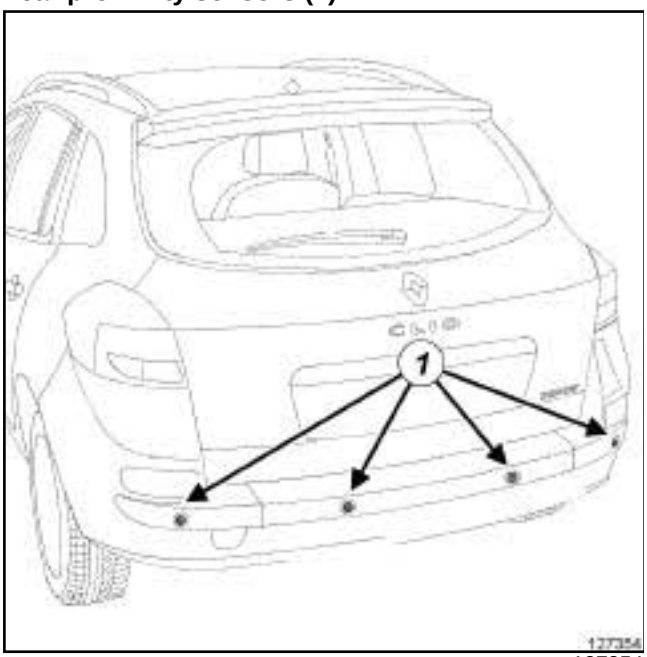
I - LIST OF COMPONENTS

The parking distance control function consists of:

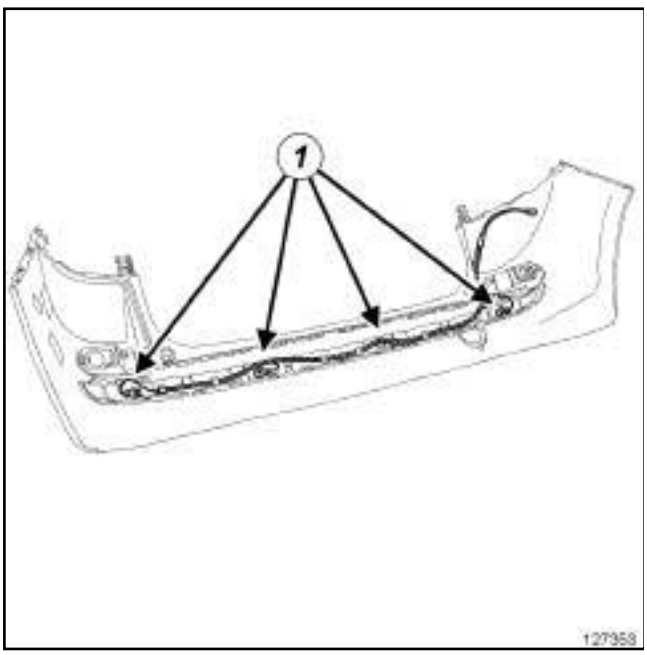
- rear proximity sensors,
- a parking distance control buzzer,
- a parking distance control computer,
- a parking distance control switch.

II - LOCATION OF COMPONENTS

Rear proximity sensors (1)

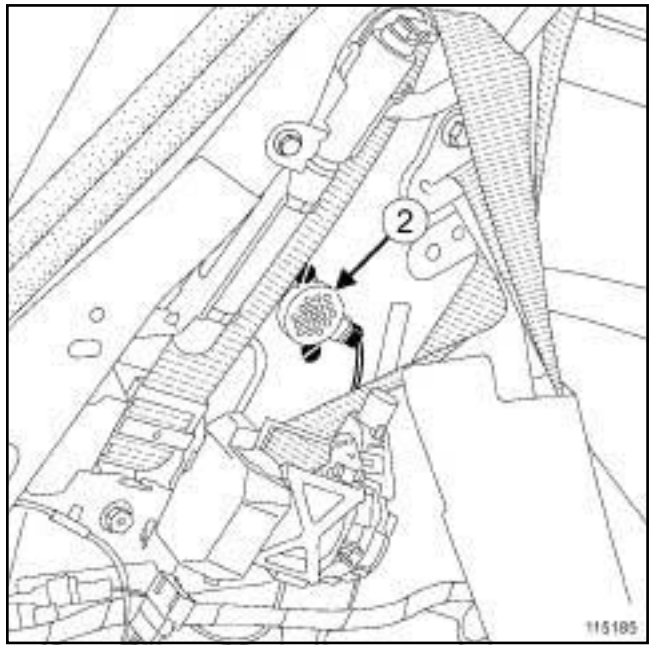


127354



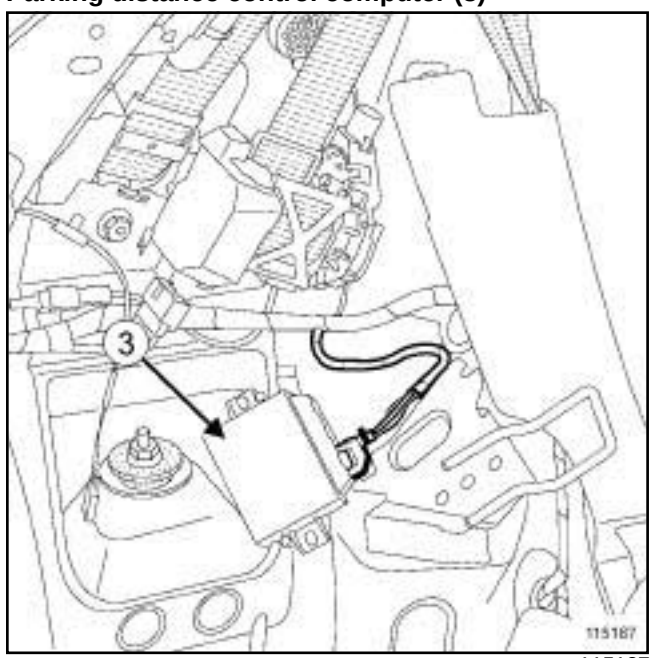
127353

Rear parking distance control buzzer (2)



115185

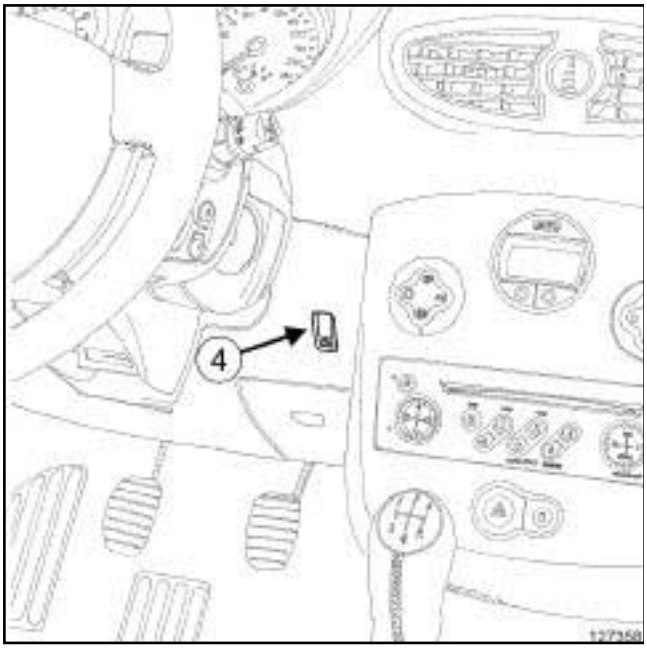
Parking distance control computer (3)



115187

REAR PROXIMITY RADAR

Parking distance control switch (4)

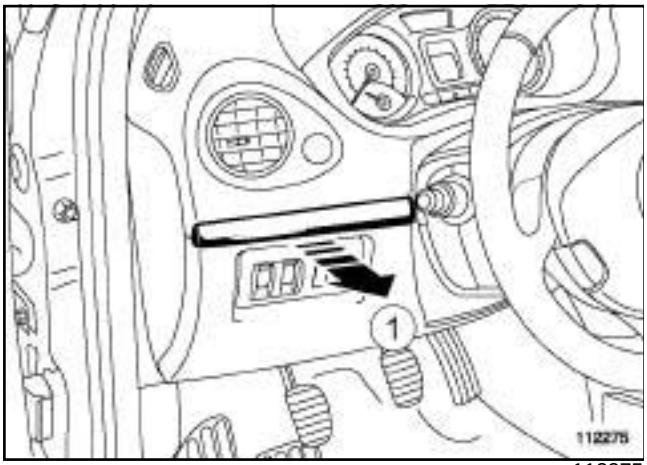


127358

PROXIMITY RADAR

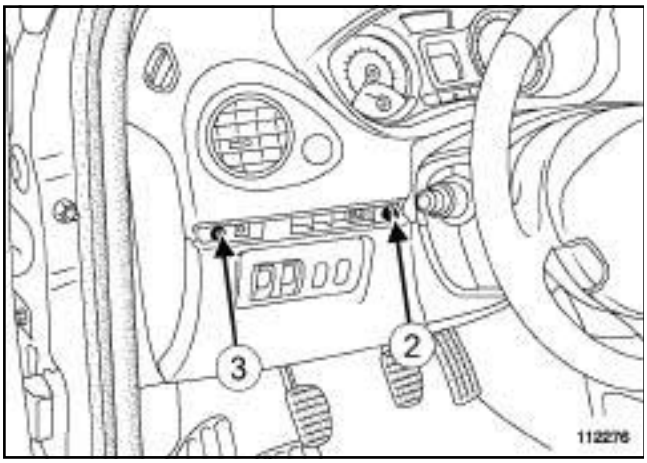
REMOVAL

I - OPERATION FOR REMOVAL OF PART CONCERNED



112275

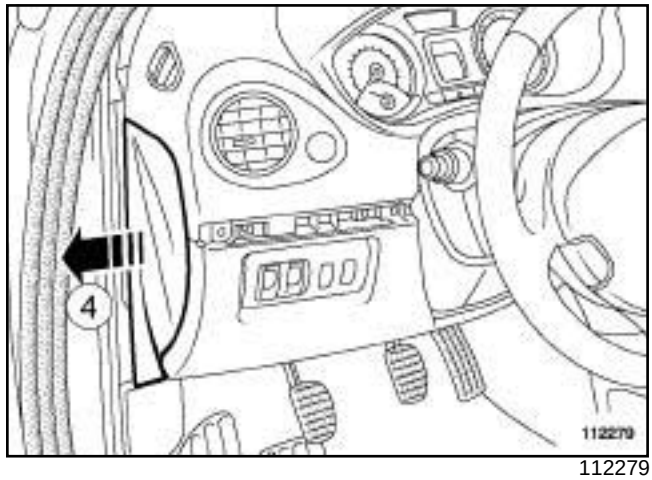
❏ Unclip the trim (**1**) .



112276

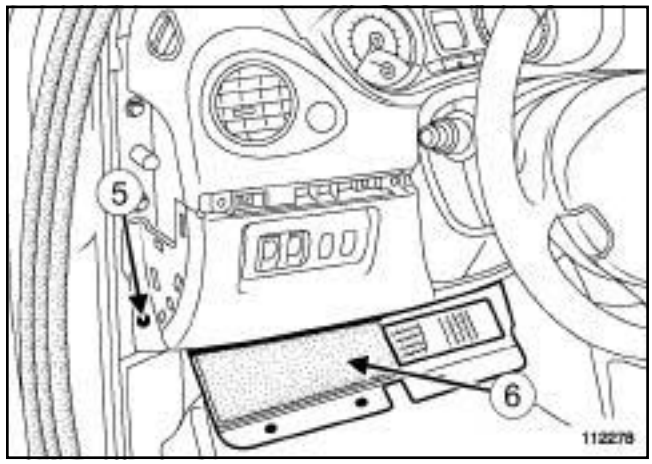
❏ Remove:

- the plastic rivet (**2**) ,
- the upper mounting bolt (**3**) .



112279

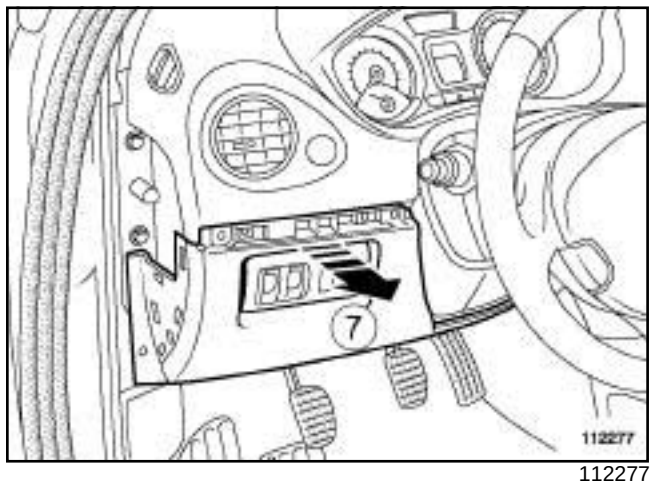
❏ Unclip the dashboard side panel (**4**) .



112278

❏ Remove:

- the lower mounting bolt (**5**) ,
- the lower cover trim (**6**) .

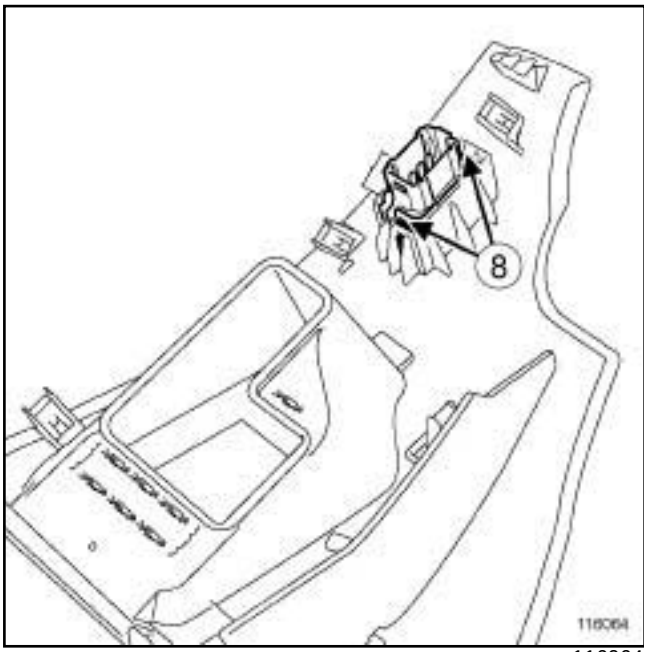


112277

❏ Remove the lower cover (**7**) .

❏ Disconnect the connectors.

II - OPERATION FOR REMOVAL OF PART CONCERNED



116064

❑ Unclip the parking proximity sensor switch by pressing on the clips (**8**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Clip the parking proximity sensor switch onto the lower cover.

II - FINAL OPERATION

❑ Connect the lower cover connectors.

❑ Refit:

- the lower cover,
- the lower cover trim,
- the lower mounting bolt.

❑ Clip on the dashboard side panel.

❑ Refit:

- the upper mounting bolt,
- the plastic rivet.

❑ Clip the trim piece in place.

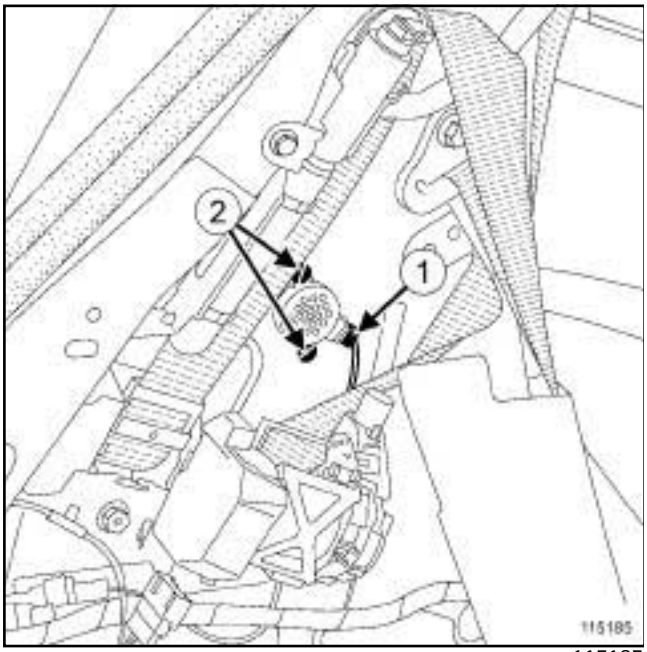
REAR PROXIMITY RADAR

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



115185

❏ Disconnect the connector (**1**) from the parking distance control buzzer.

❏ Remove:

- the parking distance control buzzer rivets (**2**) by turning them a quarter of a turn,
- the parking distance control buzzer.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the parking distance control buzzer,
- the parking distance control buzzer rivets.

❏ Connect the parking distance control buzzer connector.

II - FINAL OPERATION.

❏ Refit the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

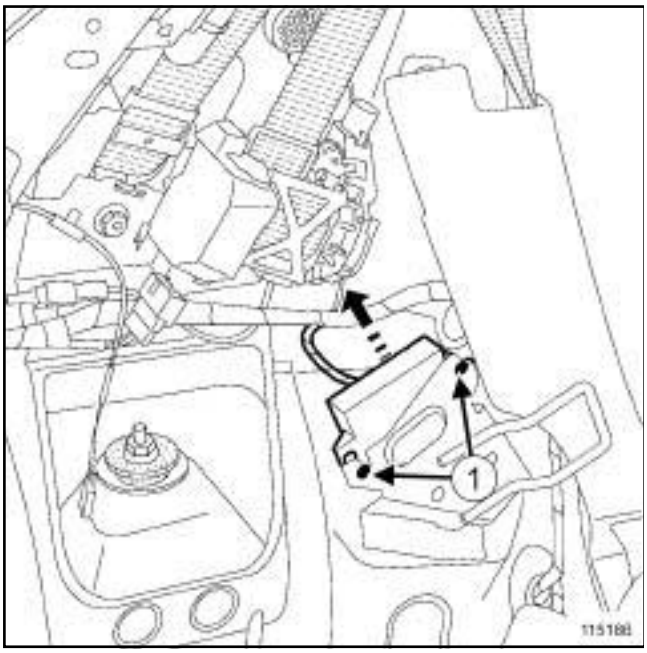
Equipment required
Diagnostic tool

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Remove the rear left-hand wheel arch liner (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

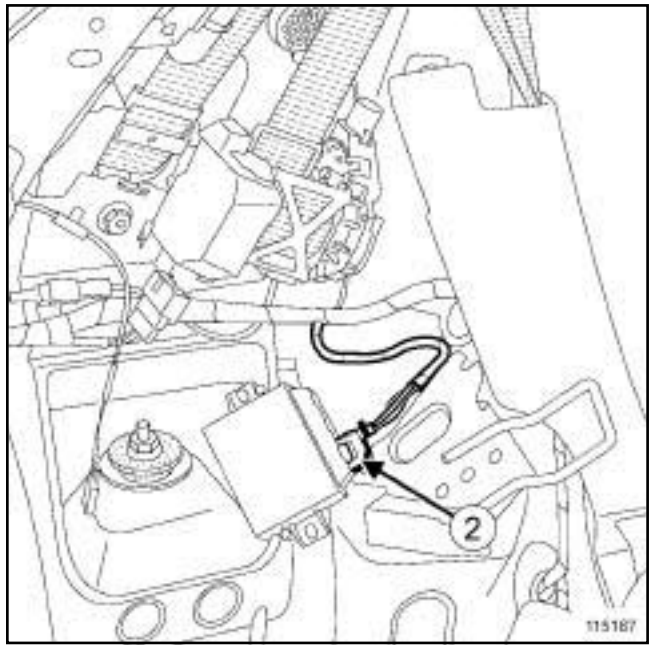
II - OPERATION FOR REMOVAL OF PART CONCERNED



115186

❑ Undo the parking distance control computer bolts (**1**) without removing them.

❑ Remove the computer upwards.



115187

❑ Disconnect the connector (**2**) from the parking distance control computer.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Connect the parking distance control computer connector.

❑ Position the computer on its support.

❑ Tighten the parking distance control computer bolts.

II - FINAL OPERATION.

❑ Refit the rear left-hand wheel arch liner (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❑ If replacing the parking distance control computer, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394 , 87F, Parking distance control).

REAR PROXIMITY RADAR

REMOVAL

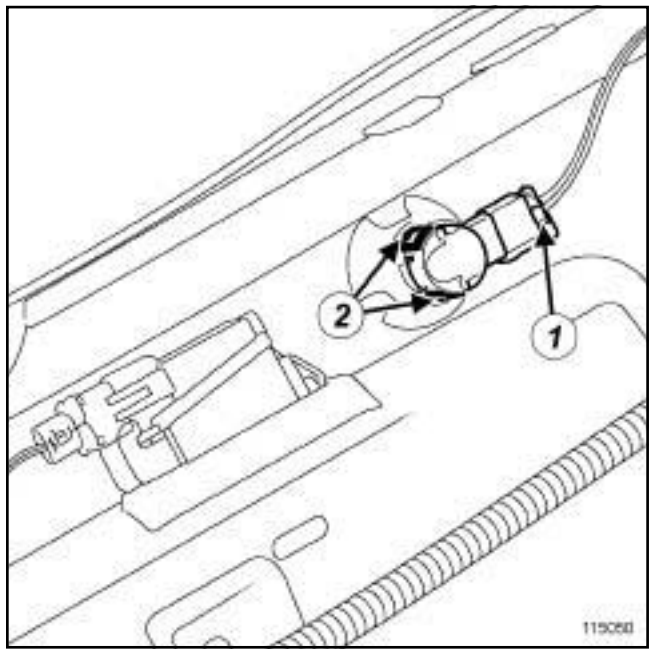
I - REMOVAL PREPARATION OPERATION

❑ Remove the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

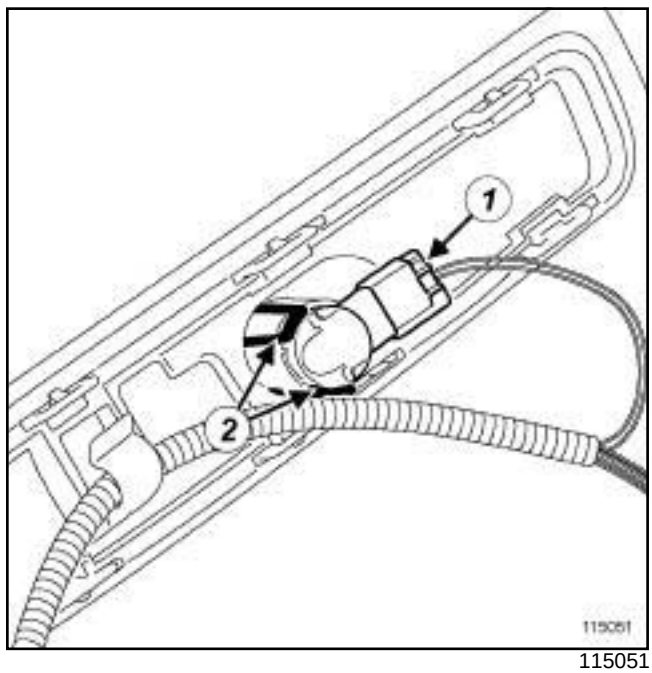
WARNING

The distance control radars are fragile. Handle with care as the external part cannot withstand impacts.

II - OPERATION FOR REMOVAL OF PART CONCERNED



115050



115051

❑ Disconnect the connectors (**1**) from the proximity radar.

❑ Remove the radars by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the proximity radars onto the bumper.

REAR PROXIMITY RADAR

❑ Connect the connectors to the proximity radars.

II - FINAL OPERATION.

❑ Refit the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

Special tooling required	
Car. 1597	Trim removal lever.

Tightening torques ▽	
engine compartment connection unit bolts	**4 Nm**
engine compartment connection unit cover bolts	**4 Nm**

IMPORTANT

Never apply pressure to the engine compartment connection unit joint face (risk of moisture entering).

If the joint face is damaged, the unit will need to be replaced.

REMOVAL

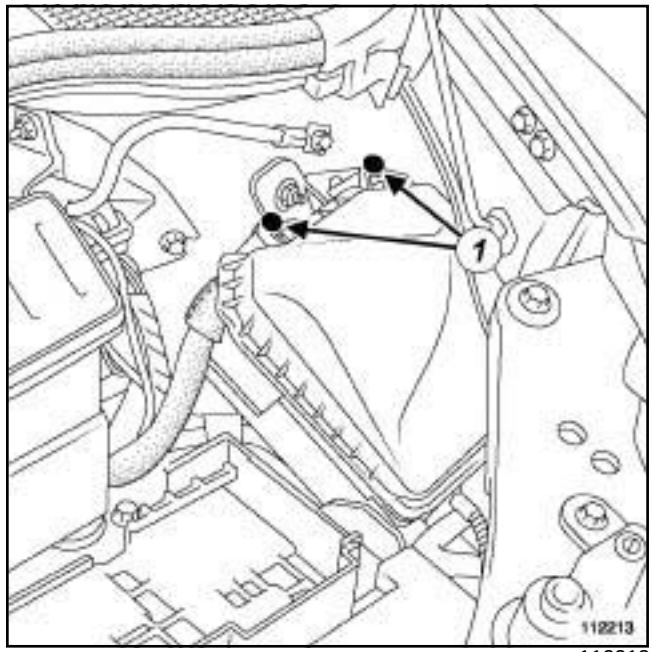
I - REMOVAL PREPARATION OPERATION

❑ In the event of replacement:

- Carry out the necessary programming (see **MR 394 Fault finding, 87G, Engine compartment connection unit, Fault finding - Replacement of components**).

❑ Remove the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**)

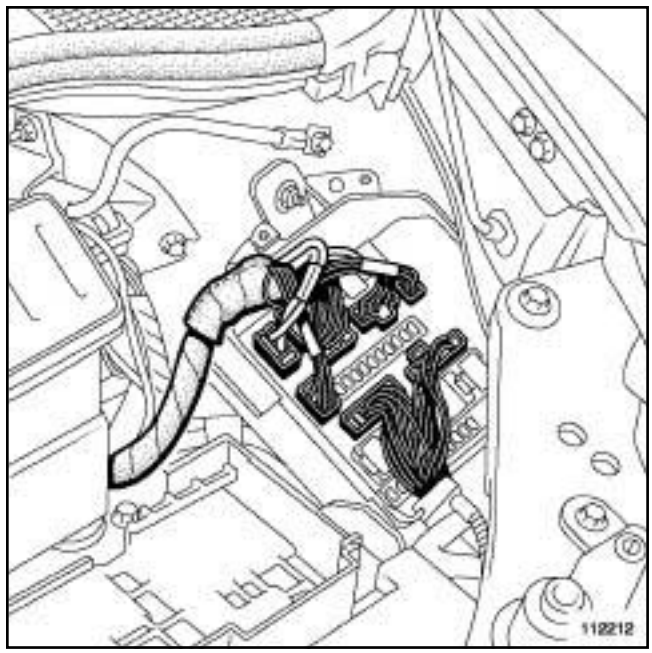
II - REMOVAL STAGE FOR THE PART CONCERNED



112213

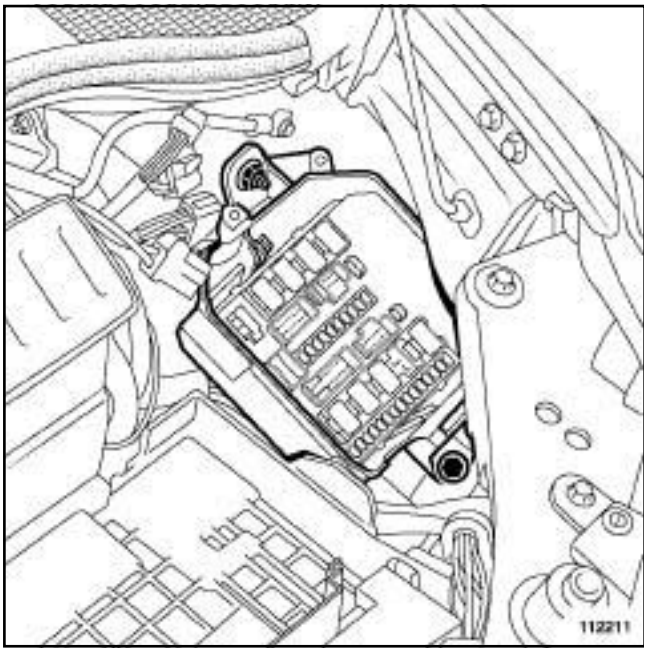
❑ Remove:

- the bolts (**1**) from the engine compartment connection unit cover,
- the cover.



112212

❑ Unclip each Protection and Switching Unit connector by pressing the connector retaining lug, without applying any pressure to the unit joint face.

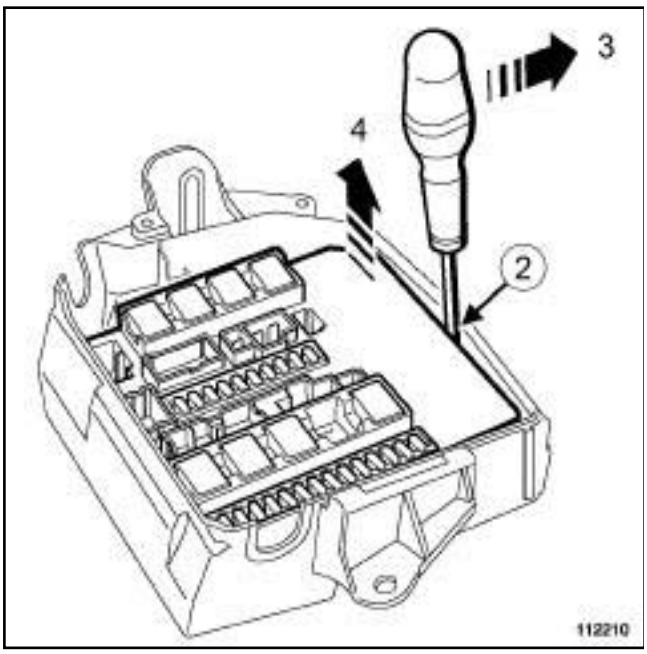


112211

❑

Remove:

- the engine compartment connection unit bolts,
- the engine compartment connection unit.



112210

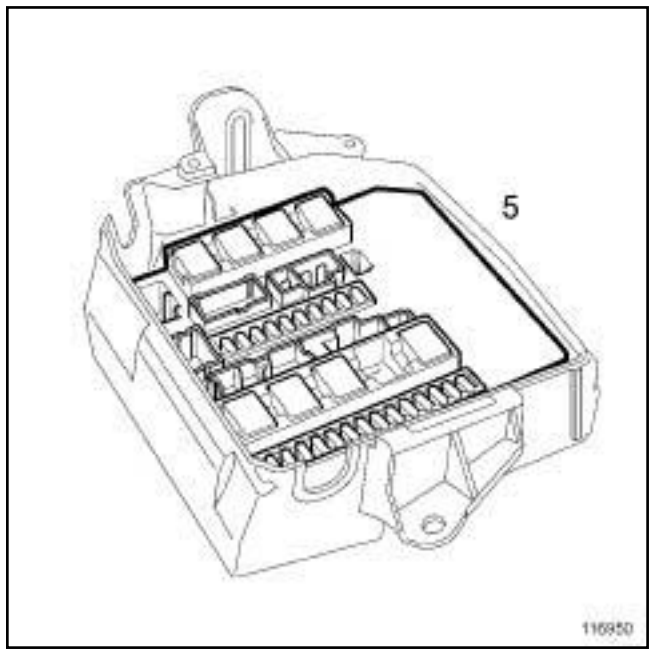
❑ Insert the **(Car. 1597)**, observing the correct engagement position (**2**) .

❑ Apply pressure at (**3**) using the tool to unclip the Protection and Switching Unit.

❑ Remove the Protection and Switching Unit at (**4**) .

REFITTING

I - REFITTING PREPARATION OPERATION



116950

❑ Position the Protection and Switching Unit by inserting it at an angle into the unit (**5**) .

❑ Clip the Protection and Switching Unit into the unit until you hear the characteristic « click » , indicating that it is correctly positioned.

II - REFITTING OPERATION FOR PART CONCERNED

❑ Fit the engine compartment connection unit in the engine compartment.

❑ Torque tighten the **engine compartment connection unit bolts (4 Nm)**.

❑ Clip on the connectors; the characteristic « click » noise tells you that they are properly connected.

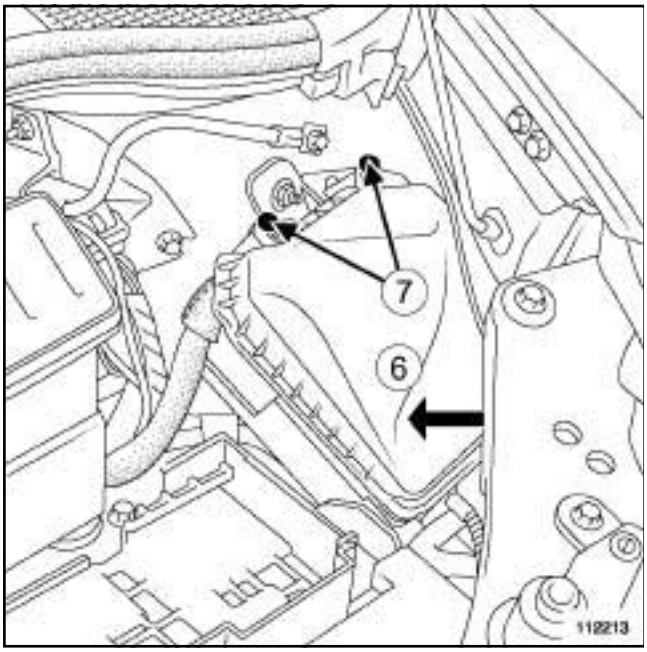
❑ Check that the wiring is in good condition.

WARNING
It is essential to observe the wiring harness routing to prevent it being damaged during refitting.

❑ Position the wiring foam pads and seals in their housings.

WARNING
The joint faces should be clean and dry.

❑ Check the condition and position of the seal on the cover.



112213

❑ Fit the cover on the engine compartment connection unit, starting by inserting it at (**6**) .

WARNING

Position this part correctly; its position is determined by the position of the inner reinforcements.

❑ Torque tighten the **engine compartment connection unit cover bolts (4 Nm)** (**7**) .

FINAL OPERATION.

❑ Refit the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) .

❑ In the event of replacement:

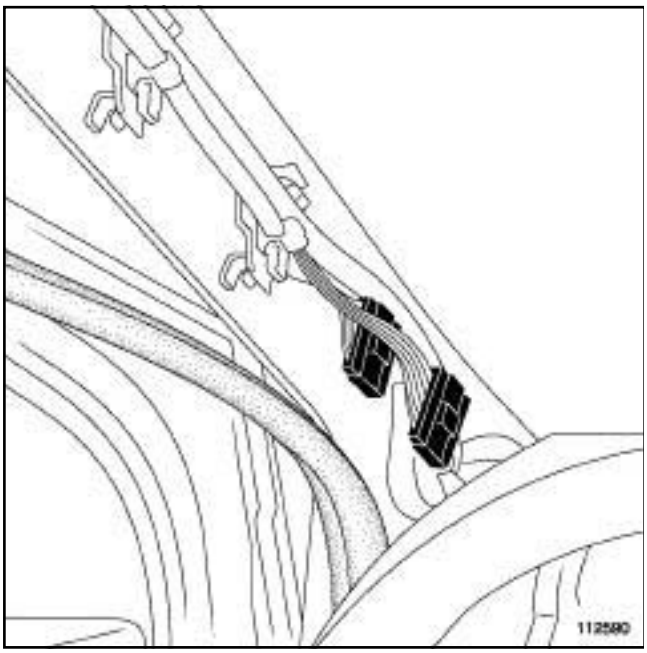
- Carry out the necessary programming (see **MR 394 Fault finding, 87G, Engine compartment connection unit, Fault finding - Replacement of components**).

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Depending on the equipment level of the vehicle, remove the covers for the interior rear-view mirror in order to disconnect the rain sensor connector (see **85A**, **Wiping - Washing**, **Rain and light sensor: Removal - Refitting**, page **85A-5**) .

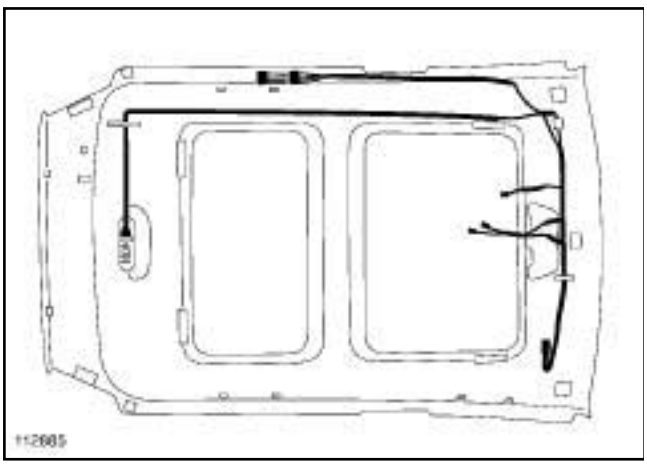
❏ Remove the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).



112590

❏ Gently disconnect the wiring harness connector.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112885

❏ Mark out the routing of the wiring harness.

❏ Gently detach the wiring harness.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏

> Note:
>
> It is possible to replace the headlining and keep the wiring harness, and vice-versa.
>
> The wiring harness cannot be repaired. It must be replaced if it is cut, broken or burnt.

❏ Use a pasting nozzle to refit the wiring harness.

❏ Paste the wiring harness onto the routing that was marked out.

> **WARNING**
>
> The position of the connectors in relation to the side of the headlining must be respected. A mark on the harness must coincide with the edge of the headlining.

❏ Cut the bead, taking care not to damage the wiring harness.

> Note:
>
> It is also possible to leave the faulty harness in place, and to glue the new harness alongside it.

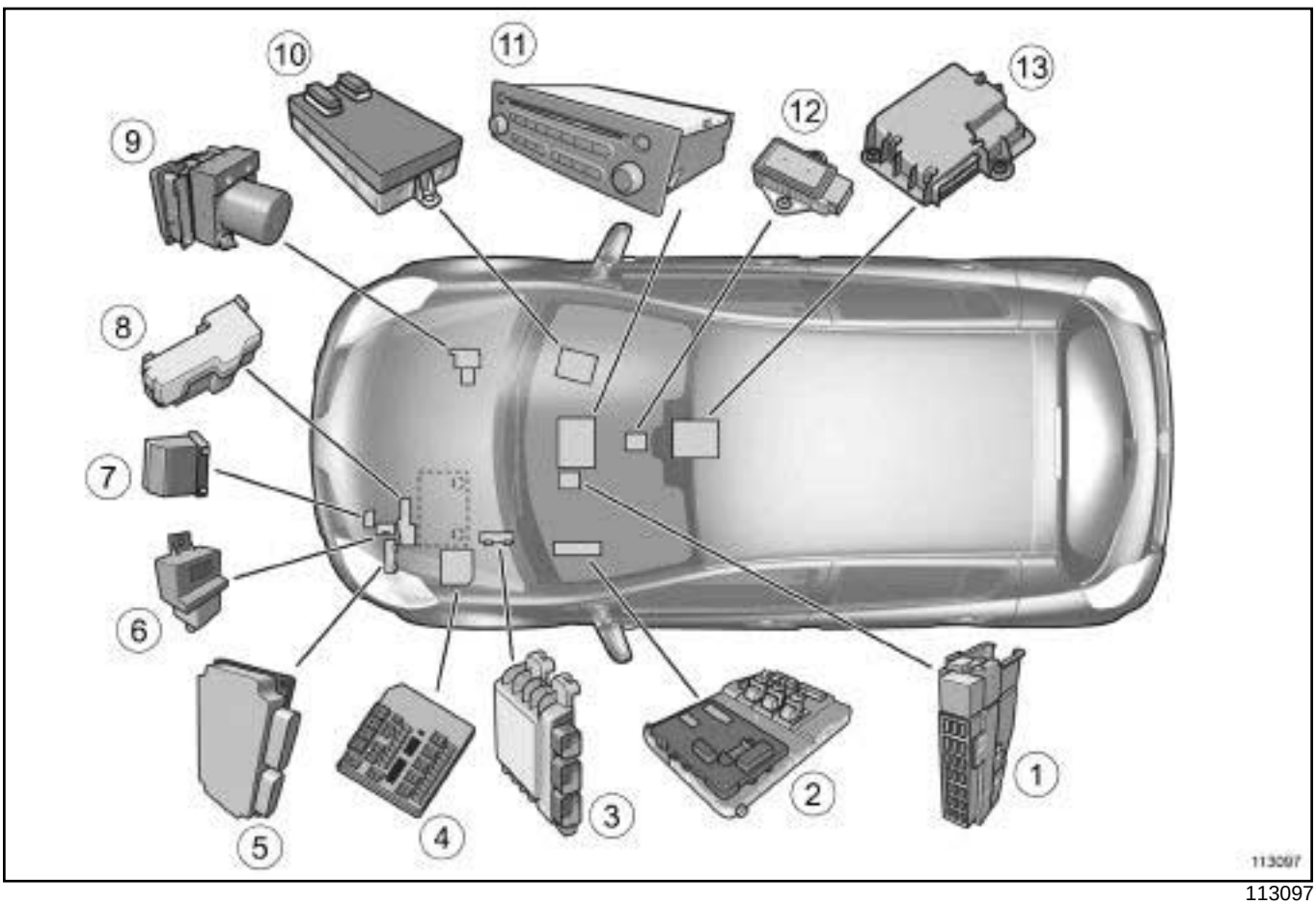
II - FINAL OPERATION.

❏ Refit the headlining (see **Headlining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❏ Depending on the level of equipment of the vehicle, reconnect the rain sensor connector.

❏ Depending on the equipment level of the vehicle, refit the interior rear-view mirror covers (see **85A**, **Wiping - Washing**, **Rain and light sensor: Removal - Refitting**, page **85A-5**) .

No.	Description
(1)	Passenger compartment fuse and relay box
(2)	UCH
(3)	Injection ECU
(4)	Protection and Switching Unit
(5)	Automatic gearbox electric control unit
(6)	Preheating unit
(7)	Electric control unit for discharge bulbs - additional cornering lights
(8)	Engine fuse and relay box - power supply fuse board
(9)	ABS - ESP electric control unit
(10)	Radio - telephone electric control unit
(11)	Radio
(12)	Yaw speed and lateral acceleration sensor
(13)	Airbag - pretensioner electric control unit



113097

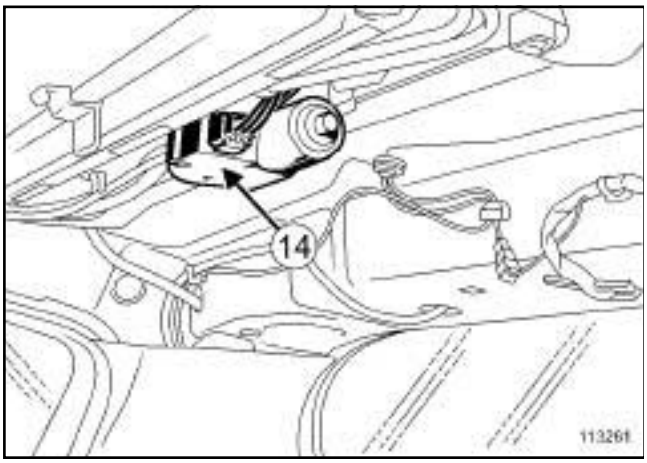
Note:

There are two types of UCH depending on the vehicle equipment level:

- a specific UCH for key-operated vehicles,

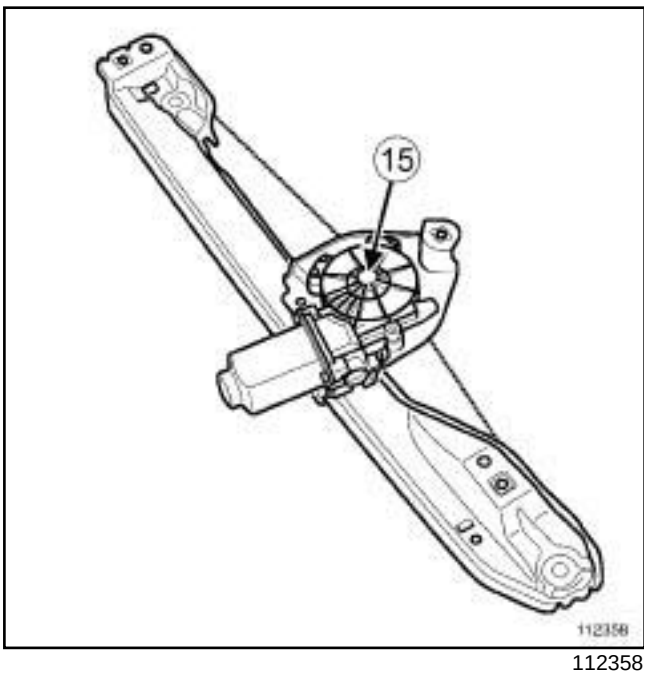
- a specific UCH for vehicles operated with a Renault card.

COMPUTERS INTEGRATED INTO COMPONENTS



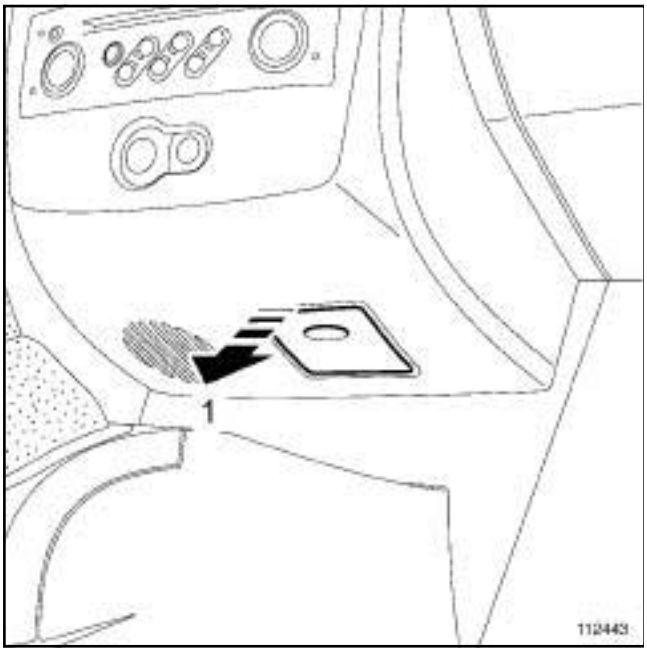
113261

The sunroof electric control unit is integrated into the motor (**14**) (anti-pinch function).



112358

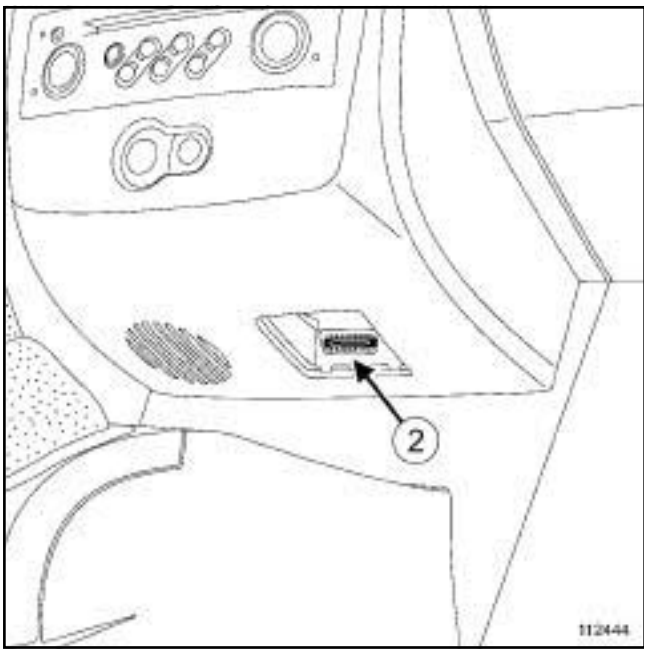
The anti-pinch function is integrated into the window winder motor (**15**) .



112443

The diagnostic socket is located on the bottom part of the dashboard, above the centre console.

Remove the flap (**1**) .



112444

Diagnostic socket (**2**) .

I - SAFETY

1 - Potentially dangerous components

Do not leave any unused +12V connectors exposed to the air without any protection (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

Check that there is no contact between the wiring and the fuel and brake pipes.

Avoid mounting the wiring in areas with a temperature above 100°C.

2 - Advice to be followed before any operation

Before carrying out any work on the wiring, disconnect the battery.

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

3 - Instructions to be followed during the operation

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

To prevent the wiring from being damaged, check that the surrounding area is not mechanically harmful (e.g.: door windows, sharp corners, burrs, studs, etc.).

The wiring should be **at least 30 mm** away from any moving components (belt, pulley, steering column, etc.).

Depending on the surrounding area, check that the unused connectors respect the necessary sealing constraints (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

All of the connections (connectors) used in the engine compartment are sealed; do not remove the seal from around the connectors.

II - GENERAL RECOMMENDATIONS

Do not connect an earth to a stud with insulating protection (paint,etc.).

Do not use more than two earth terminals on the same point.

Do not use power earths on the same point as electronic earths.

To prevent water flowing into the connectors, make a low point just on the wiring routing (just before the connector).

For connections between fixed and mobile components, secure the wiring on the fixed part.

Overlapping of the battery feed wires (positive and negative) causes disruption; they must be secured separately.

Wiring mountings:

- use plastic clips, ensuring that the colour coding is respected,

-do not use steel clips that are not protected with rubber,

- keep the clips integrated into the wiring during a replacement operation,

- do not leave steering wheel wires without protection.

Check that:

- the shunts are correctly secured,

- the connectors are correctly housed and locked.

Wiring routing:

- when it is visible it must be aesthetically pleasing, and resemble the routing marked during removal,

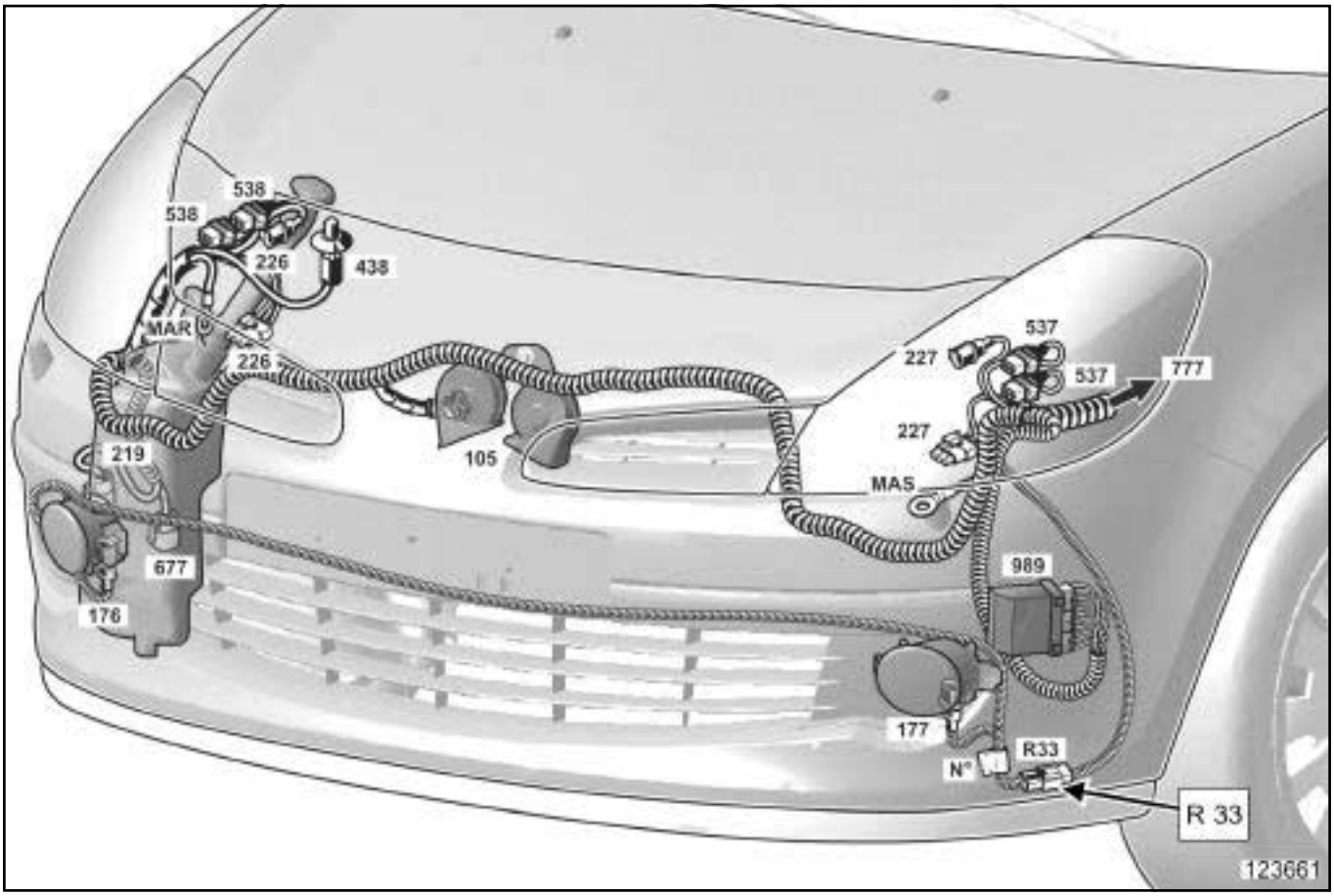
- prohibit wiring routing in grooves and overlaps (risk of wear through friction),

- prohibit mounting several wires on the same clip,

- do not lock the connectors or wiring in areas that are sensitive to drilling (number plate etc.).

FOG LIGHTS

I - LOCATION OF CONNECTORS



123661

❑ R 33 connector (front end panel/front bumper connection).

II - ACCESS TO CONNECTORS

❑

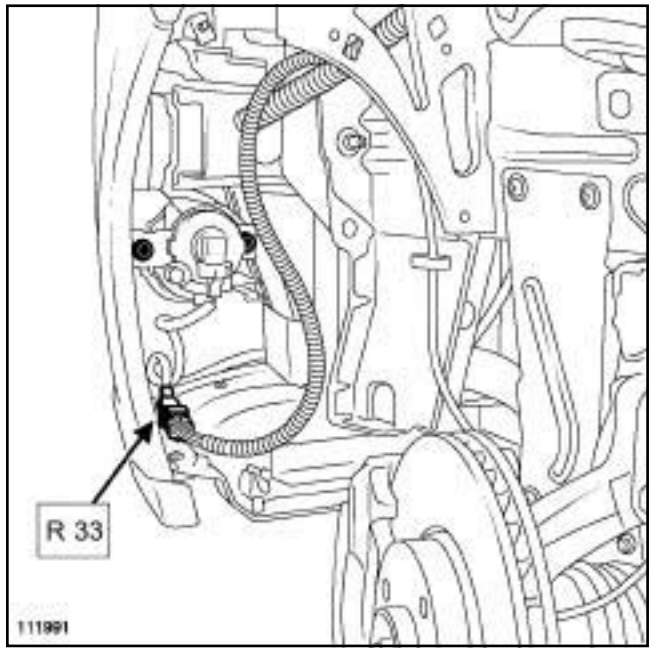
IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the front section of the front left-hand wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).



111991

❑ Disconnect the R 33 connector.

FOG LIGHTS

FOG LIGHTS

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

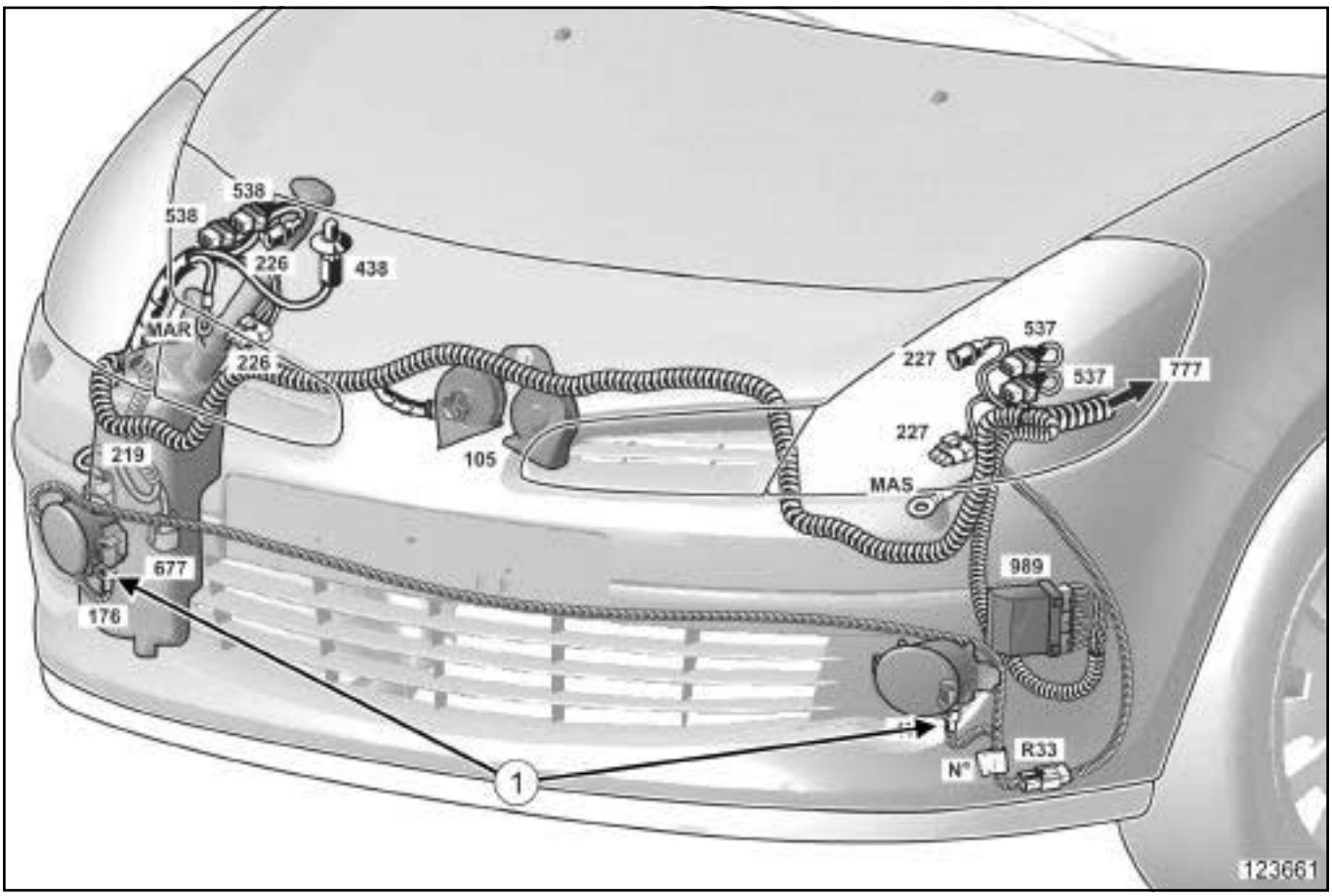
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove:

- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED

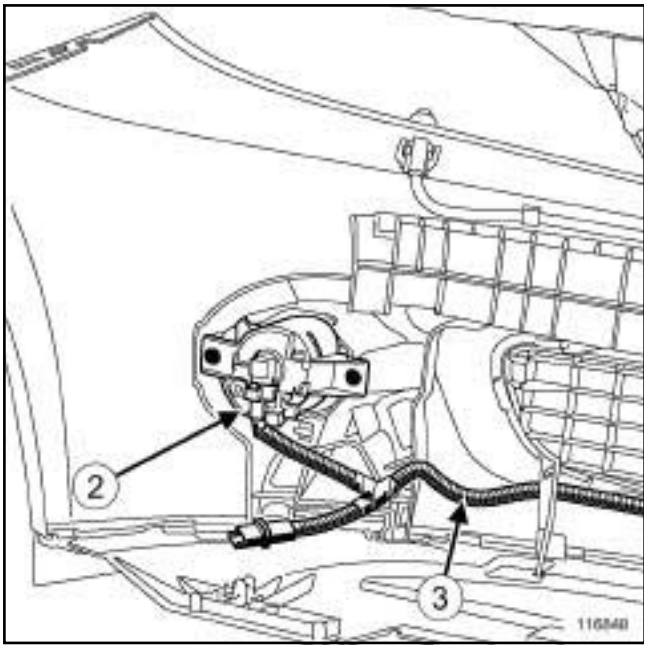


123661

❑

WARNING
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

FOG LIGHTS



116848

❏ Disconnect the (**2**) fog light connector ***(1)*** .

❏ Mark the routing of the wiring in the front bumper.

❏ Unclip the front bumper wiring (**3**) .

❏ Remove the wiring.

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❏ Reconnect the fog light connector.

❏ Clip the wiring onto the front bumper in the position marked during the removal operation.

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

III - FINAL OPERATION.

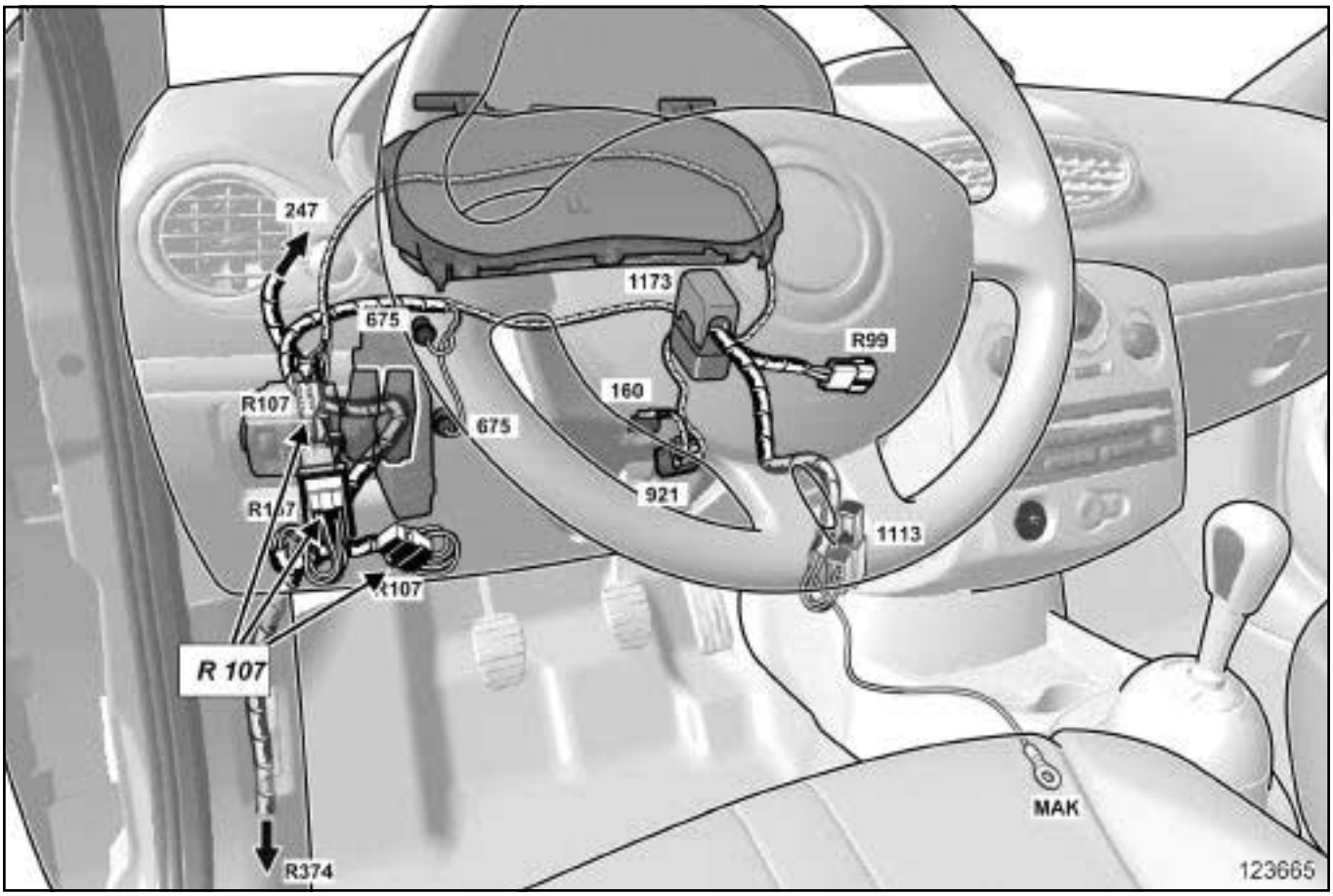
❏ refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

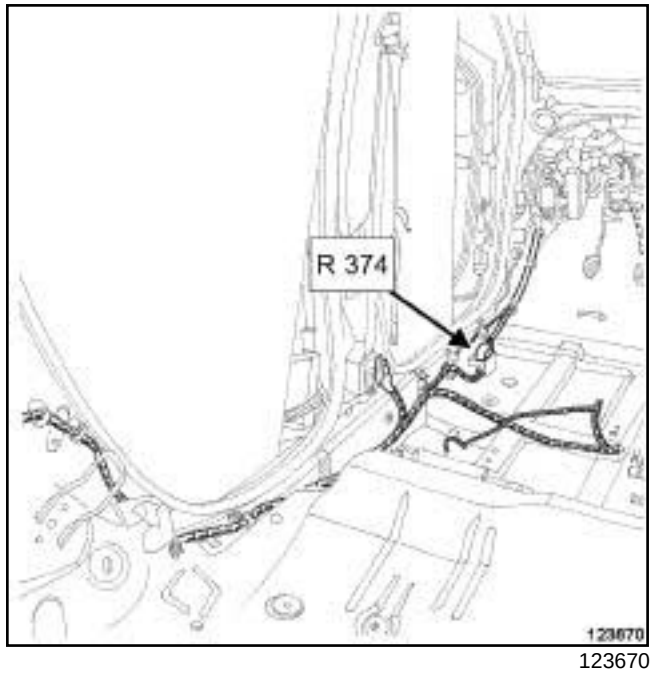
❏ Check the operation of the fog lights.

I - LOCATION OF CONNECTORS



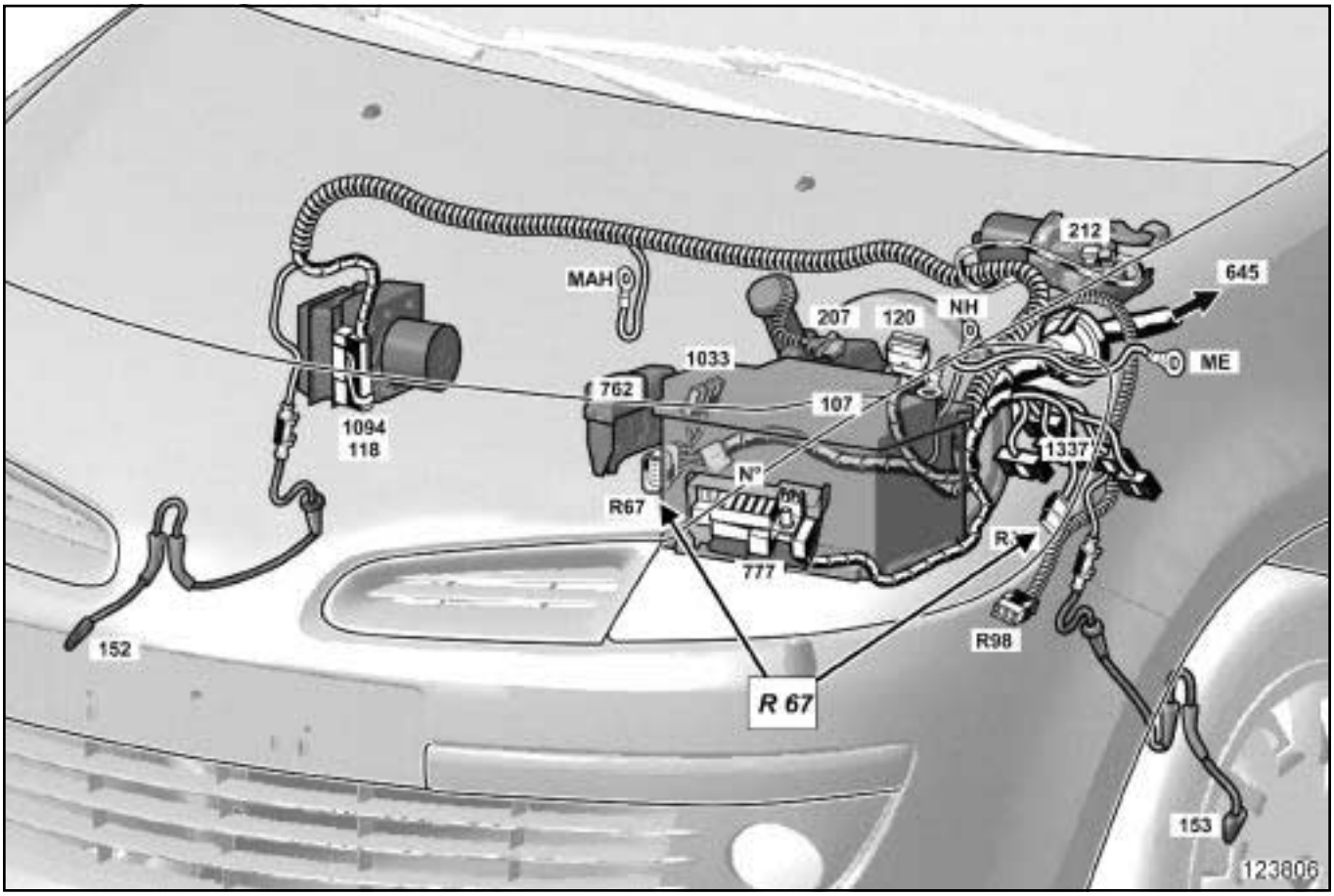
123665

❑ Connection R 107 (front left-hand wiring/dashboard wiring connection) composed of two to four connectors depending on equipment.



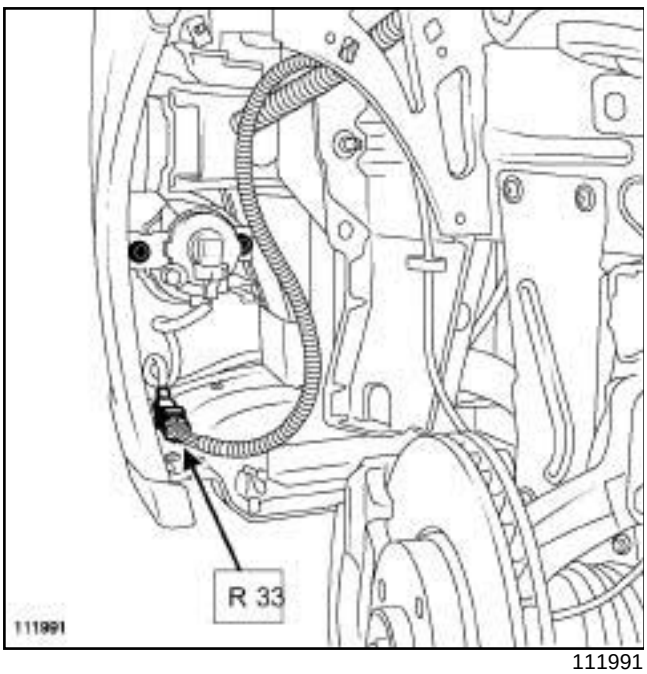
123670

❑ R 374 connector (front left-hand wiring/rear left-hand wiring connection).



123806

❑ Connection R 67 (front left-hand wiring/engine wiring harness connection) composed of two to three connectors depending on equipment.



111991

❑ R 33 connector (front left-hand wiring/front bumper wiring connection).

II - ACCESS TO CONNECTORS

❑

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

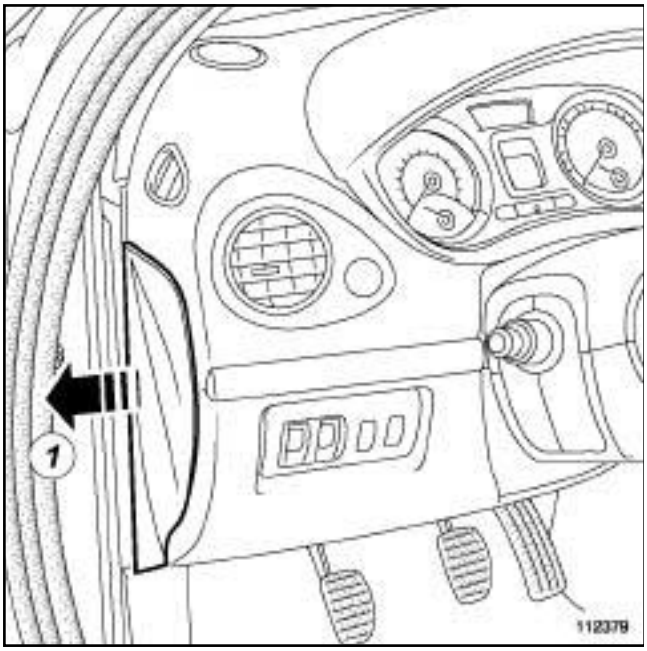
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

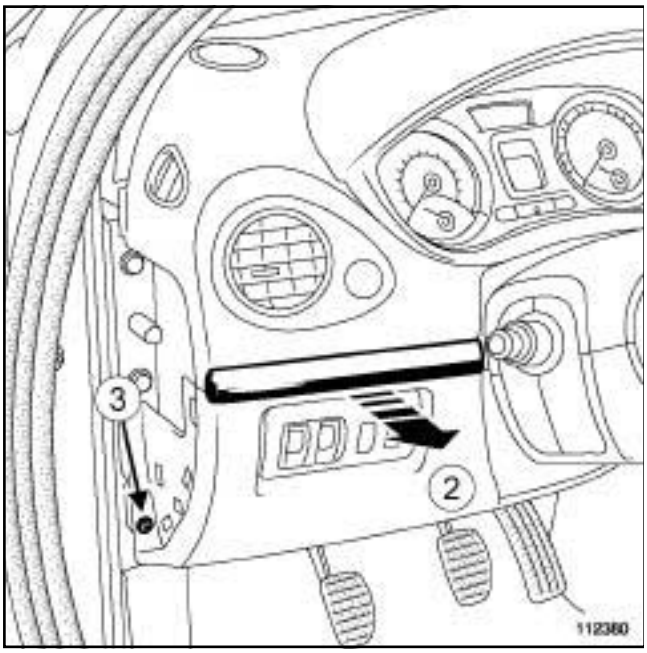
1 - Access to the R 107 connectors

LEFT-HAND DRIVE



112379

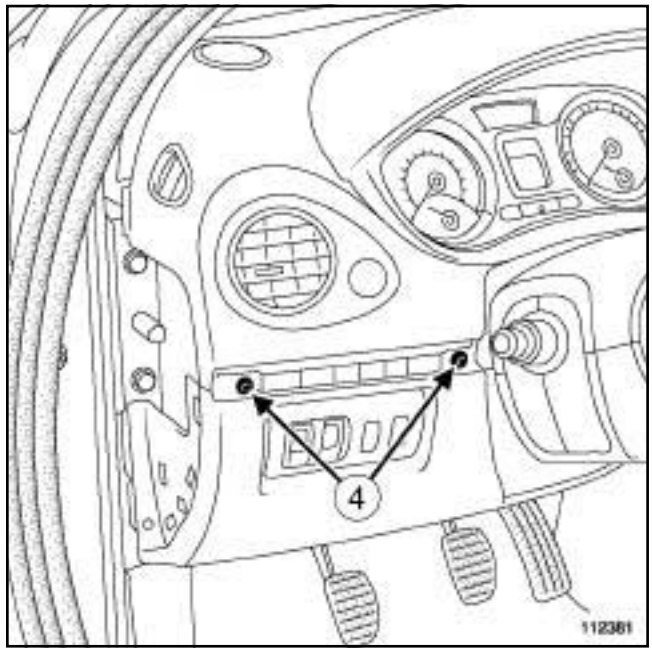
❏ Remove the dashboard side face (**1**) .



112380

❏ Remove:

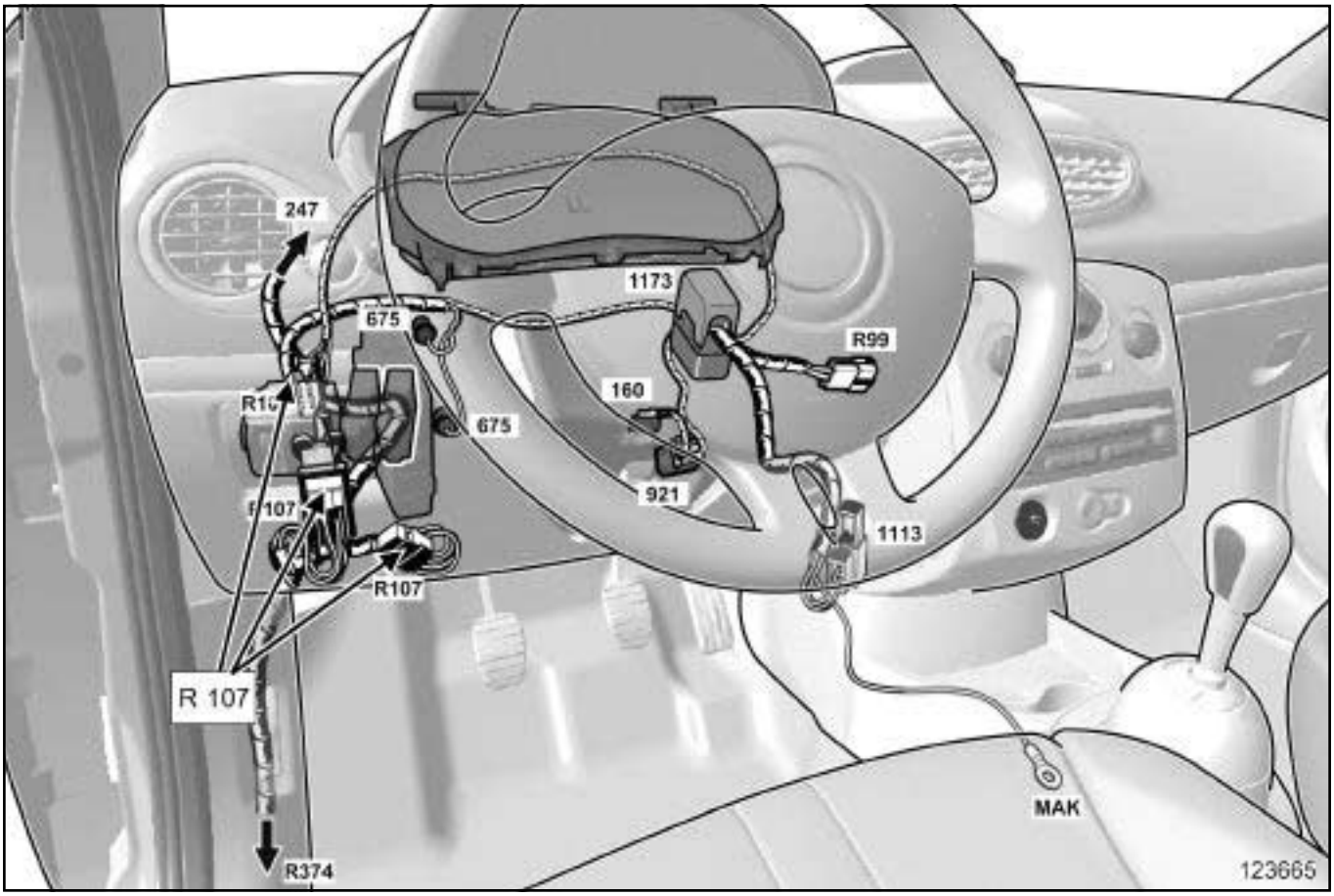
- the dashboard trim piece (**2**) ,
- the dashboard lower trim bolt (**3**) .



112381

❏ Remove:

- the dashboard lower trim bolt (**4**) .
- the dashboard lower trim.

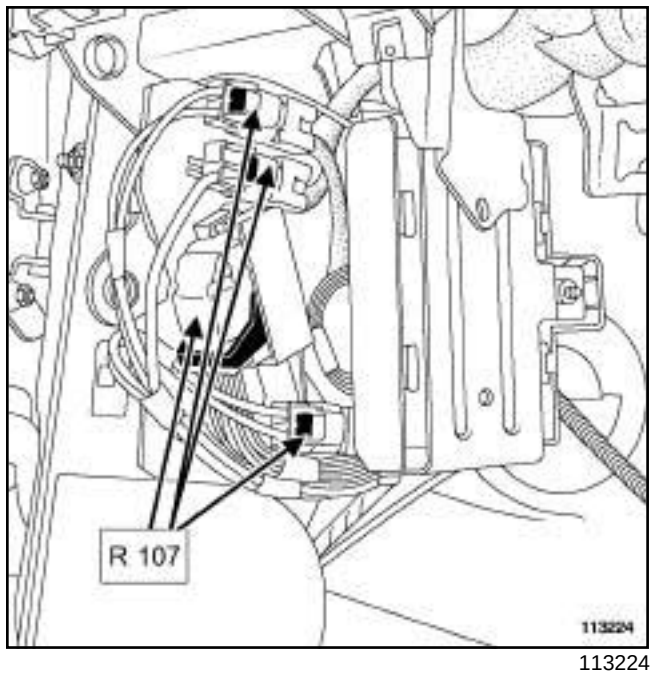


123665

❑ Disconnect the connectors from connection R 107.

RIGHT-HAND DRIVE

❑ Remove the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).

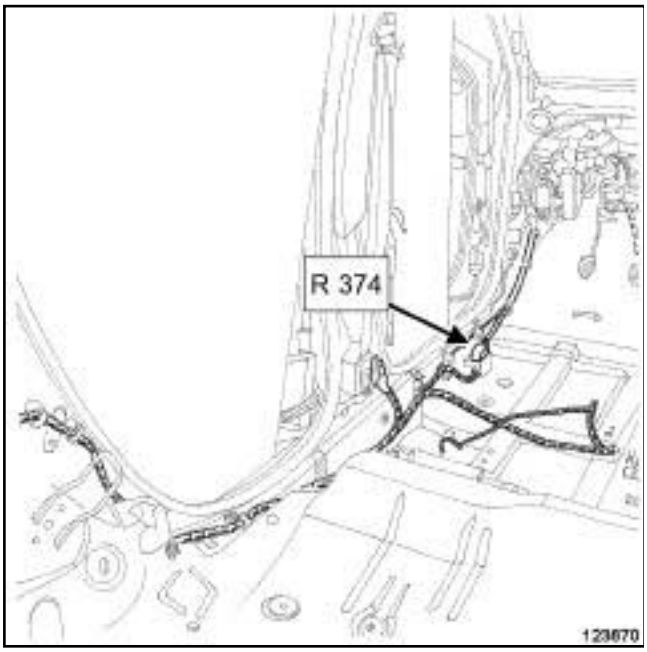


113224

❑ Disconnect the connectors from connection R 107.

2 - Access to the R 374 connector

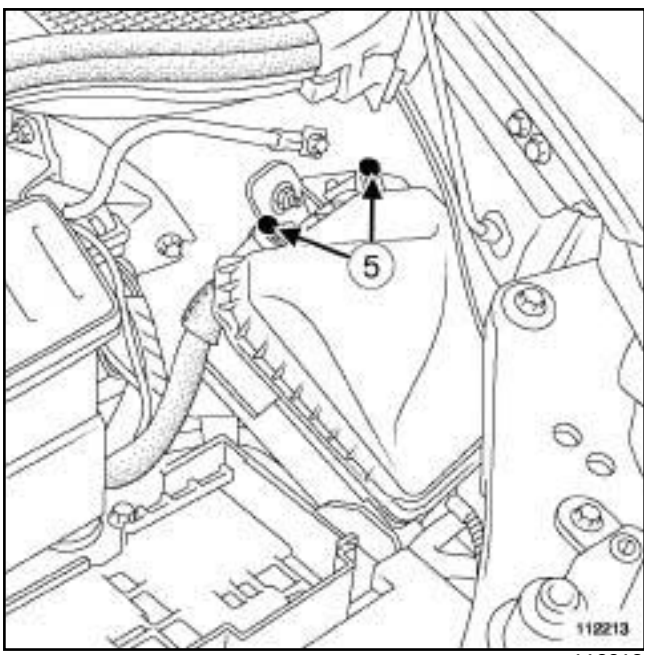
❑ Remove the front left-hand door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).



123670

❑ Disconnect the R 374 connector.

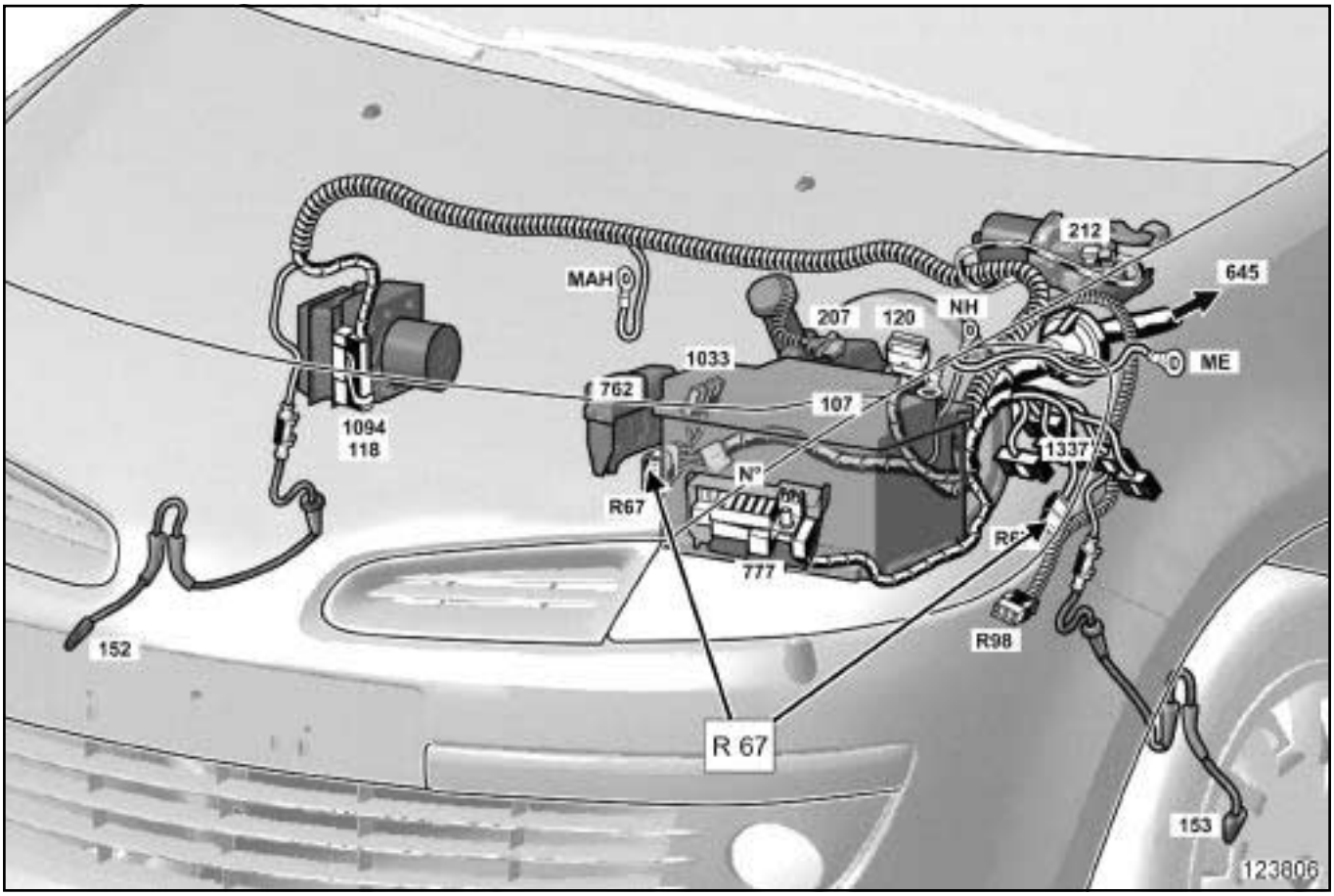
3 - Access to the R 67 connector



112213

❑ Remove:

- the bolts (**5**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

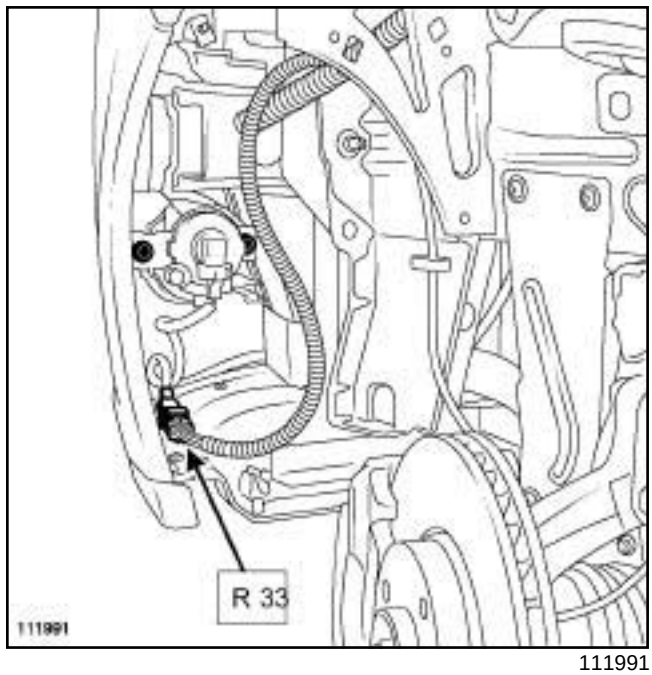


123806

❑ Disconnect the connectors from connection R 67.

4 - Access to the R 33 connector

❑ Remove the front section of the front left-hand wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).



111991

❑ Disconnect the R 33 connector.

LEFT-HAND DRIVE

Tightening torques ▽	
earth cable nut on the body	**8 Nm**
earth wiring nut to the brake hydraulic unit	**8 Nm**
earth wiring nut on the front left-hand side member	**8 Nm.**
earth wiring nut on the front right-hand side member	**8 Nm.**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

Note:
It is not necessary to remove the dashboard to access the pedal wiring.

REMOVAL

REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter unit (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

D4F or F4R or K4J or K4M or M4R

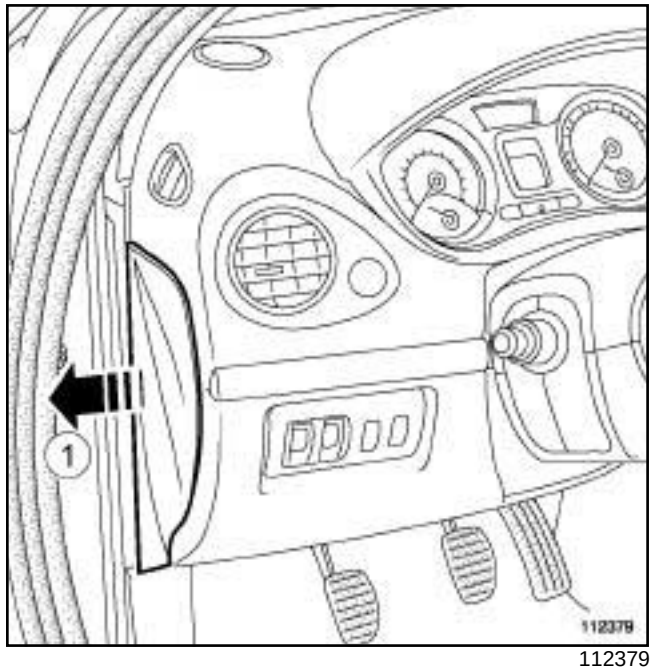
❑ Remove the petrol injection computer (see **Petrol injection computer: Removal - Refitting**) (MR 392, 17B, Petrol injection).

K9K

❑ Remove the diesel injection computer (see **Diesel injection computer: Removal - Refitting**) (MR 392, 13B, Diesel injection).

❑ Remove:

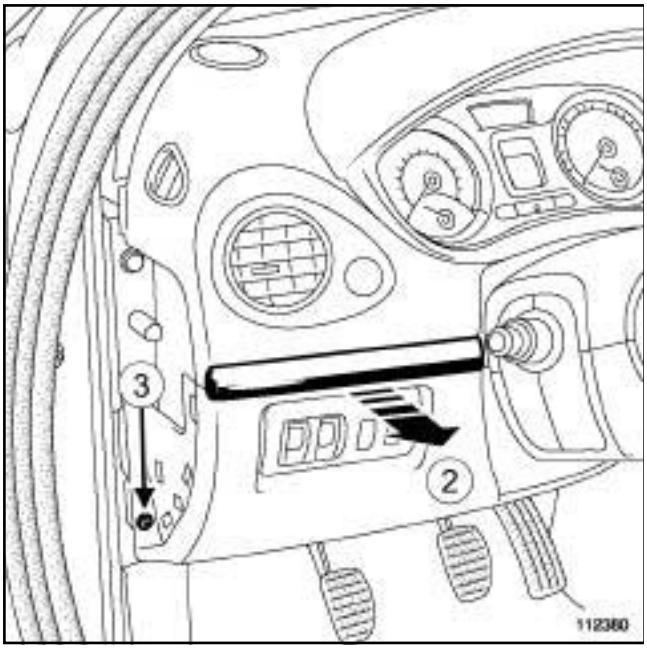
- the injection computer mounting,
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).



112379

❑ Remove the dashboard side face (**1**) .

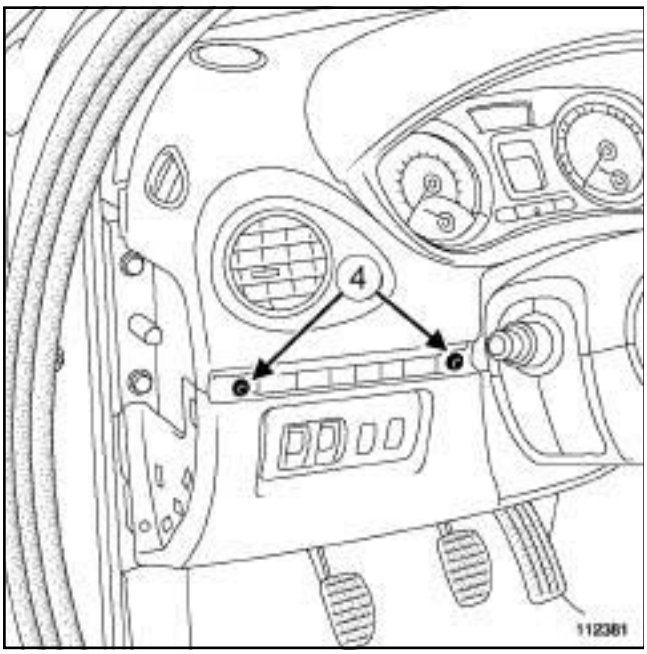
LEFT-HAND DRIVE



112380

❑ Remove:

- the dashboard trim piece (**2**) ,
- the dashboard lower trim bolt (**3**) .

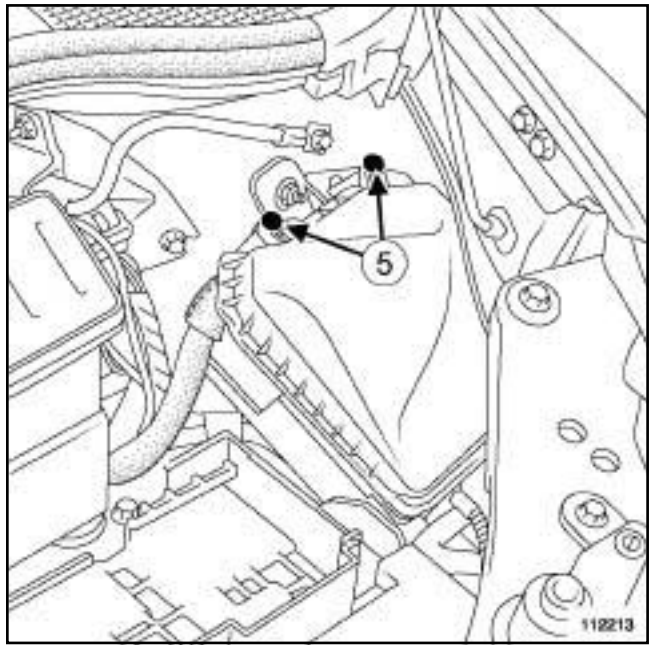


112381

❑ Remove:

- the dashboard lower trim bolts (**4**) ,
- the dashboard lower trim.

❑ Disconnect the connectors depending on equipment.



112213

❑ Remove:

- the bolts (**5**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

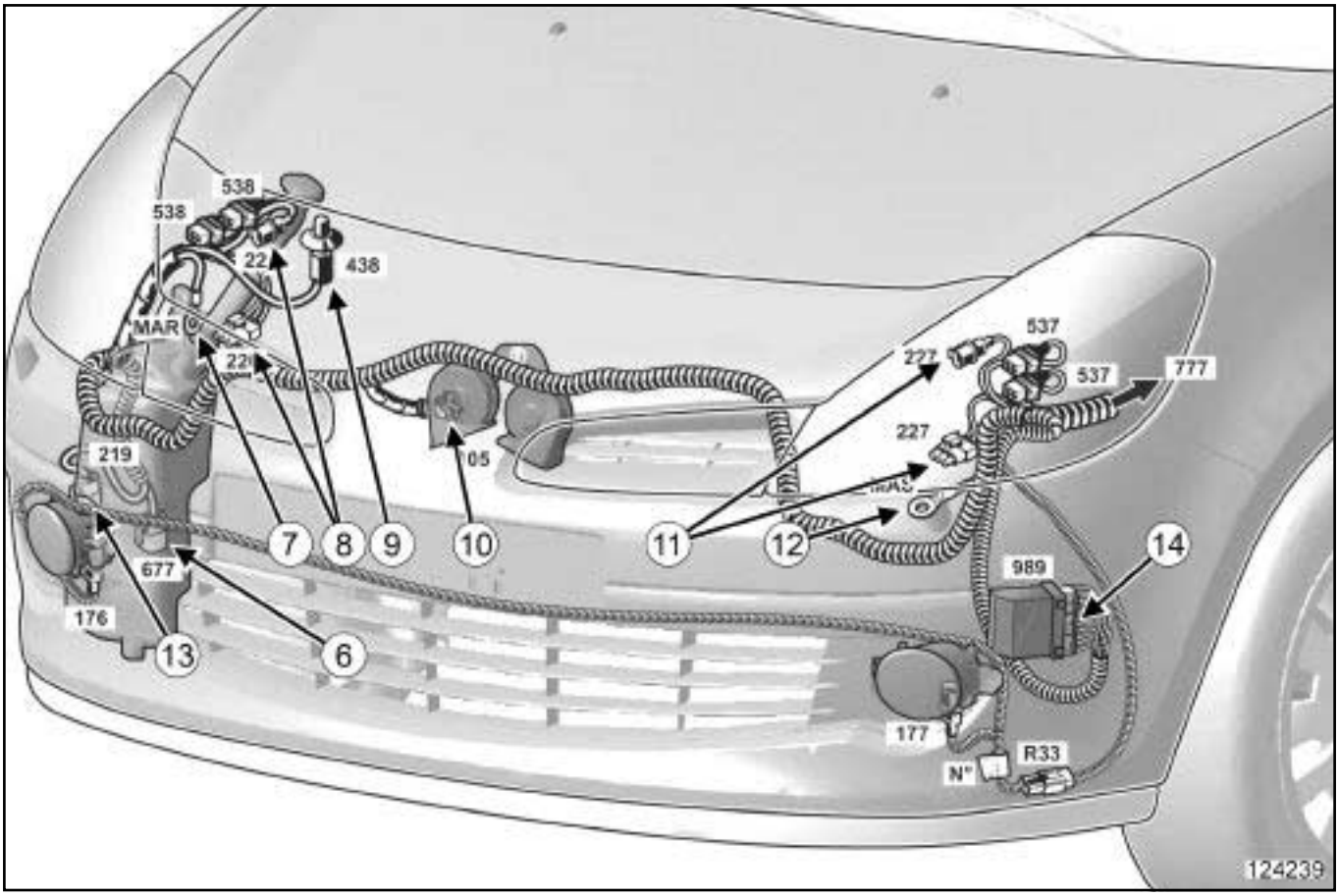
OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

LEFT-HAND DRIVE



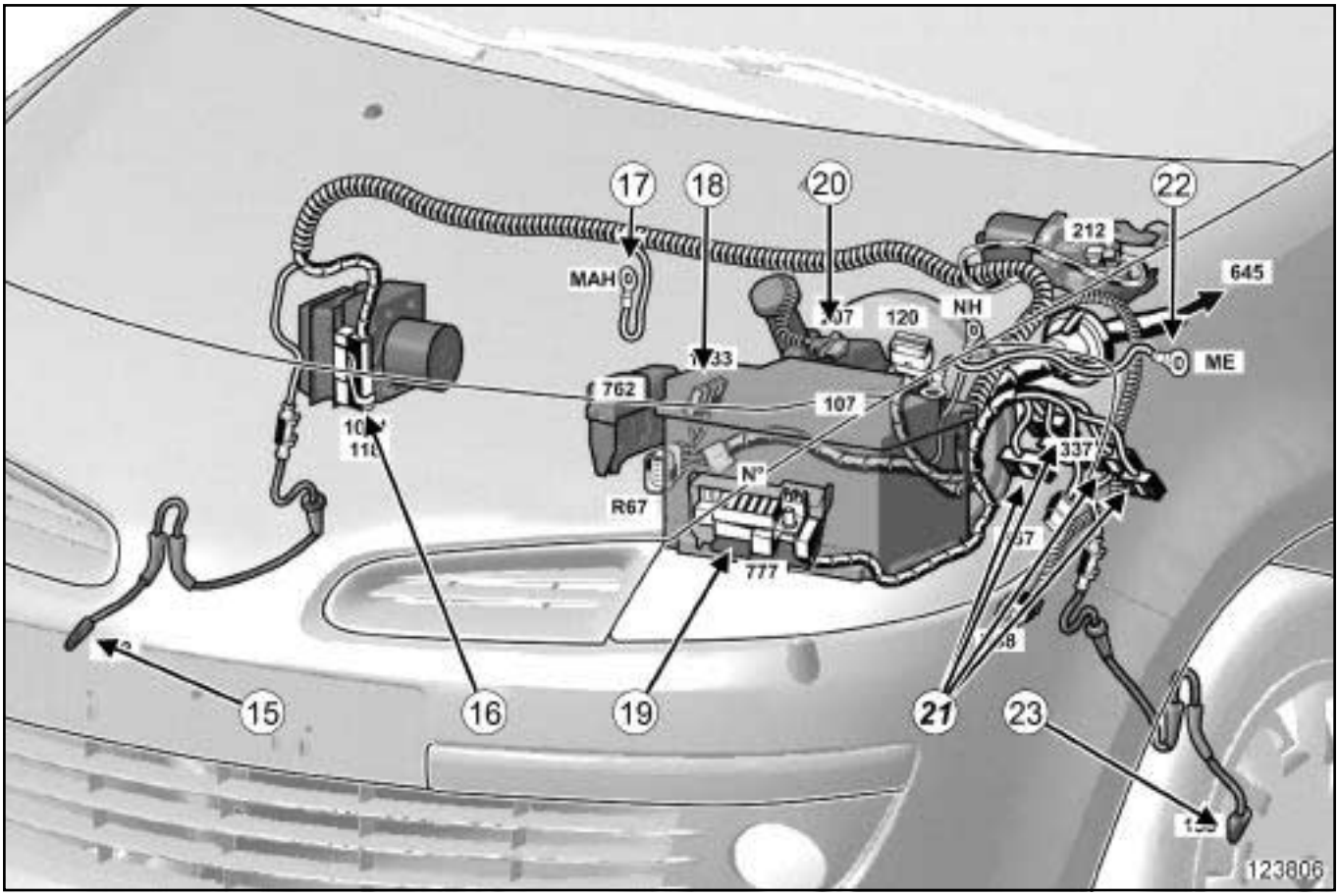
124239

- ❏ Disconnect the bidirectional windscreen and rear screen washer pump connector (**6**) .
- ❏ Remove the earth wiring nut (**7**) from the front right-hand side member.
- ❏ Disconnect:
  - the right-hand headlight connectors (**8**) ,
  - the bonnet switch connector (**9**) ,
  - the horn connector (**10**) ,
  - the left-hand headlight connectors (**11**) .
- ❏ Remove the earth wiring nut (**12**) from the front left-hand side member.

DISCHARGE LAMPS

- ❏ Disconnect:
  - the headlight washer pump connector ***(13)*** ,
  - the discharge bulb computer connectors ***(14)*** .

LEFT-HAND DRIVE



123806

❏ Disconnect:

- the front right-hand wheel speed sensor connector (**15**) ,
- the brake hydraulic unit connector (**16**) .

❏ Remove the earth wiring nut (**17**) from the brake hydraulic unit.

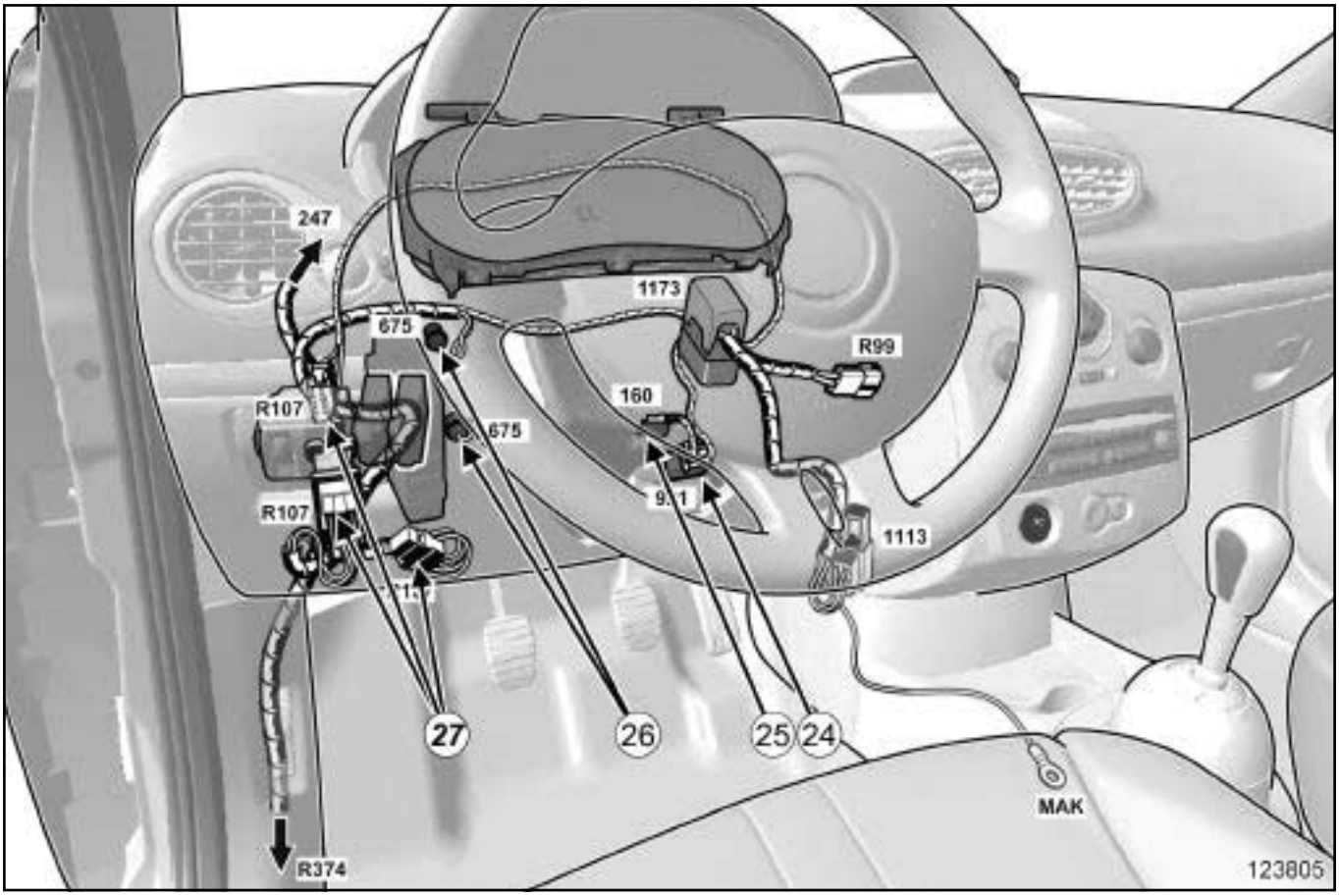
❏ Disconnect:

- the battery protective fuse holder connectors (**18**) ,
- the power supply fuse board connector (**19**) ,
- the brake fluid level sensor connector (**20**) .
- the Protection and Switching Unit connectors (**21**) ,

❏ Remove (**22**) the earth wiring nut on the body.

❏ Disconnect the front left-hand wheel speed sensor connector (**23**) .

LEFT-HAND DRIVE



123805

❑ Disconnect:

- the accelerator pedal potentiometer connector (**24**) ,
- the brake light switch connector (**25**) ,
- the clutch pedal position sensor connectors (**26**) ,
- the front left-hand wiring/dashboard wiring connection (**27**) .

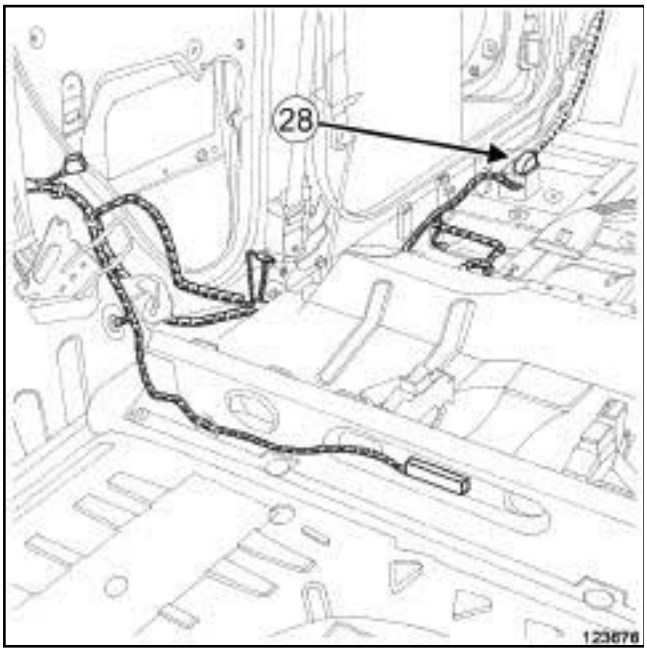
❑ Remove the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) (MR 392, 85A, Wiping - Washing).

❑ Unclip:

- the bulkhead wiring,
- the front bumper upper cross member wiring,
- the windscreen washer fluid reservoir wiring,
- the dashboard cross member wiring.

LEFT-HAND DRIVE

B85

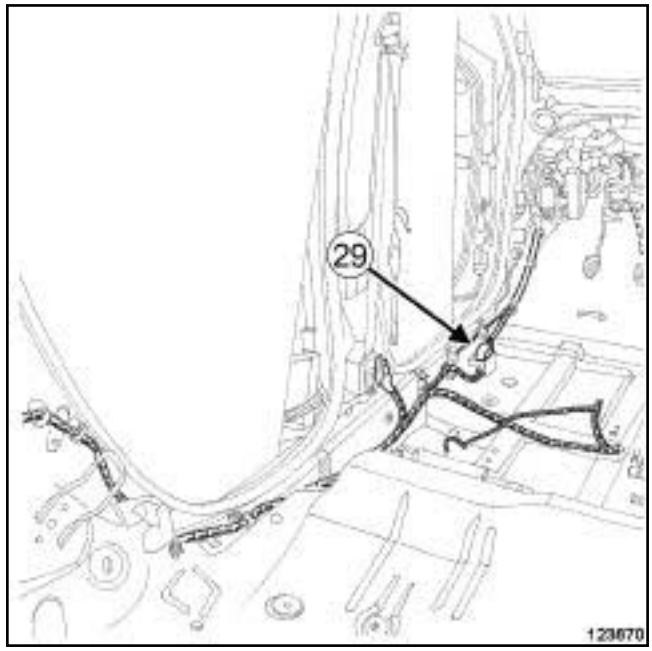


123676

❏ Disconnect the front left-hand wiring/rear left-hand wiring connection (**28**) .

❏ Unclip the front left-hand wiring.

C85



123670

❏ Disconnect the front left-hand wiring/rear left-hand wiring connection (**29**) .

❏ Unclip the front left-hand wiring.

❏ Unclip the front left-hand wiring on the bulkhead.

❏ Remove the bonnet lock cable (see **Bonnet lock: Removal - Refitting**) (MR 393, 52A, Non-side opening element mechanisms).

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❏ Remove the front left-hand wiring.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

LEFT-HAND DRIVE

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the front left-hand wiring,
- the bonnet lock cable (see **Bonnet lock: Removal - Refitting**) (MR 393, 52A, Non-side opening element mechanisms).

❑ Clip:

- Unclip the front left-hand wiring on the bulkhead,
- the front left-hand wiring.

❑ Connect the front left-hand wiring/rear left-hand wiring connection.

❑ Clip:

- the dashboard cross member wiring,
- the windscreen washer fluid reservoir wiring,
- the front bumper upper cross member wiring,
- the bulkhead wiring.

❑ Refit the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) (MR 392, 85A, Wiping - Washing).

❑ Connect:

- the front left-hand wiring/dashboard wiring connection.
- the clutch pedal position sensor connectors,
- the brake light switch connector,
- the accelerator pedal potentiometer connector.

❑ Disconnect the front left-hand wheel speed sensor connector.

❑ Refit the earth wiring nut on the body.

❑ Torque tighten the **earth cable nut on the body (8 Nm)**.

❑ Connect:

- the Protection and Switching Unit connectors,
- the brake fluid level sensor connector,
- the power supply fuse board connector,
- the battery protective fuse holder connectors.

❑ Refit the earth wiring nut to the brake hydraulic unit.

❑ Torque tighten the **earth wiring nut to the brake hydraulic unit (8 Nm)**.

❑ Connect:

- the brake hydraulic unit connector,
- the front right-hand wheel speed sensor connector.

DISCHARGE LAMPS

❑ Connect:

- the discharge bulb computer connectors,
- the headlight washer pump connector.

❑ Refit the earth wiring nut on the front left-hand side member.

❑ Torque tighten the **earth wiring nut on the front left-hand side member (8 Nm.)**

❑ Connect:

- the left-hand headlight connectors,
- the horn connector,
- the bonnet switch connector,
- the right-hand headlight connectors.

❑ Refit the earth wiring nut on the front right-hand side member.

❑ Torque tighten the **earth wiring nut on the front right-hand side member (8 Nm.)**

❑ Disconnect the bidirectional windscreen and rear screen washer pump connector.

FINAL OPERATION.

❑ Refit:

- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❑ Tighten the bolts on the Protection and Switching Unit cover.

❑ Connect the connectors depending on equipment.

❑ Refit:

- the dashboard lower trim,
- the dashboard lower trim bolts.

❑ Tighten the dashboard lower trim bolts.

❑ Refit:

- the dashboard trim piece,
- the dashboard side panel.

LEFT-HAND DRIVE

❏ Refit:

- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the injection computer support.

K9K

❏ Remove the diesel injection computer (see **Diesel injection computer: Removal - Refitting**) (MR 392, 13B, Diesel injection).

D4F or F4R or K4J or K4M or M4R

❏ Remove the petrol injection computer (see **Petrol injection computer: Removal - Refitting**) (MR 392, 17B, Petrol injection).

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter unit (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

RIGHT-HAND DRIVE

Tightening torques ▽	
earth cable nut on the body	**8 Nm**
earth wiring nut to the brake hydraulic unit	**8 Nm**
earth wiring nut on the front left-hand side member	**8 Nm.**
earth wiring nut on the front right-hand side member	**8 Nm.**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

Note: It is not necessary to remove the dashboard to access the pedal wiring.

REMOVAL

REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❏ Switch off the ignition.

❏ Remove:

- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter unit (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

D4F or F4R or K4J or K4M or M4R

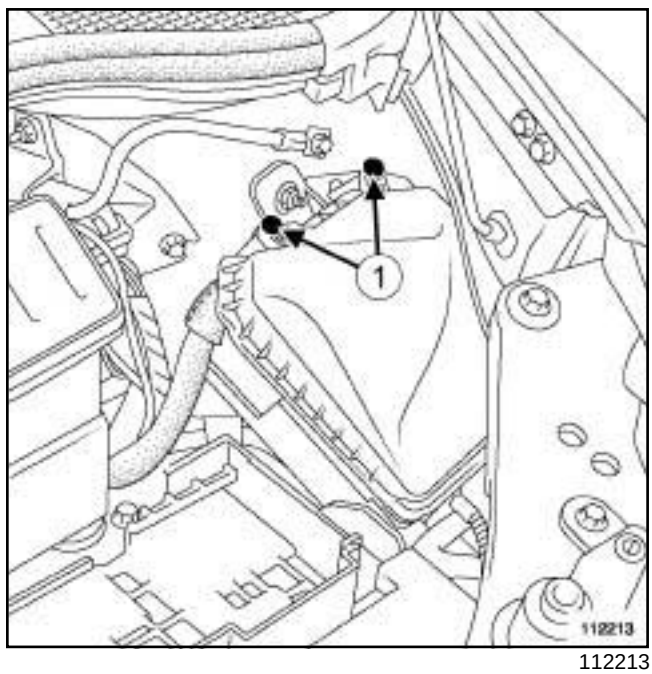
❏ Remove the petrol injection computer (see **Petrol injection computer: Removal - Refitting**) (MR 392, 17B, Petrol injection).

K9K

❏ Remove the diesel injection compute r (see **Diesel injection computer: Removal - Refitting**) (MR 392, 13B, Diesel injection).

❏ Remove:

- the injection computer mounting,
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment).



112213

❏ Remove:

- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

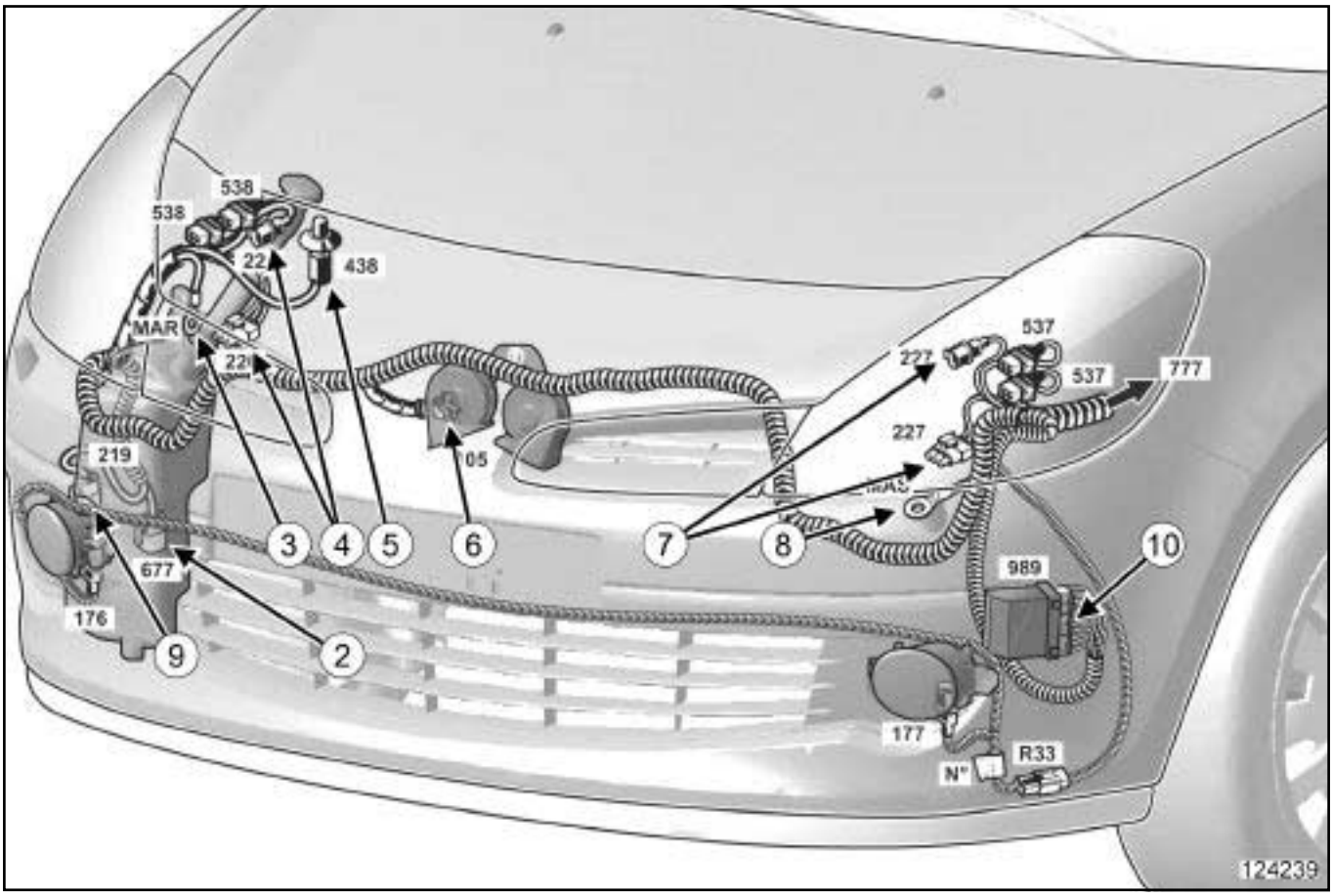
RIGHT-HAND DRIVE

OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



124239

❑ Disconnect the bidirectional windscreen and rear screen washer pump connector (**2**) .

❑ Remove the earth wiring nut (**3**) from the front right-hand side member.

❑ Disconnect:

- the right-hand headlight connectors (**4**) ,
- the bonnet switch connector (**5**) ,
- the horn connector (**6**) ,
- the left-hand headlight connectors (**7**) .

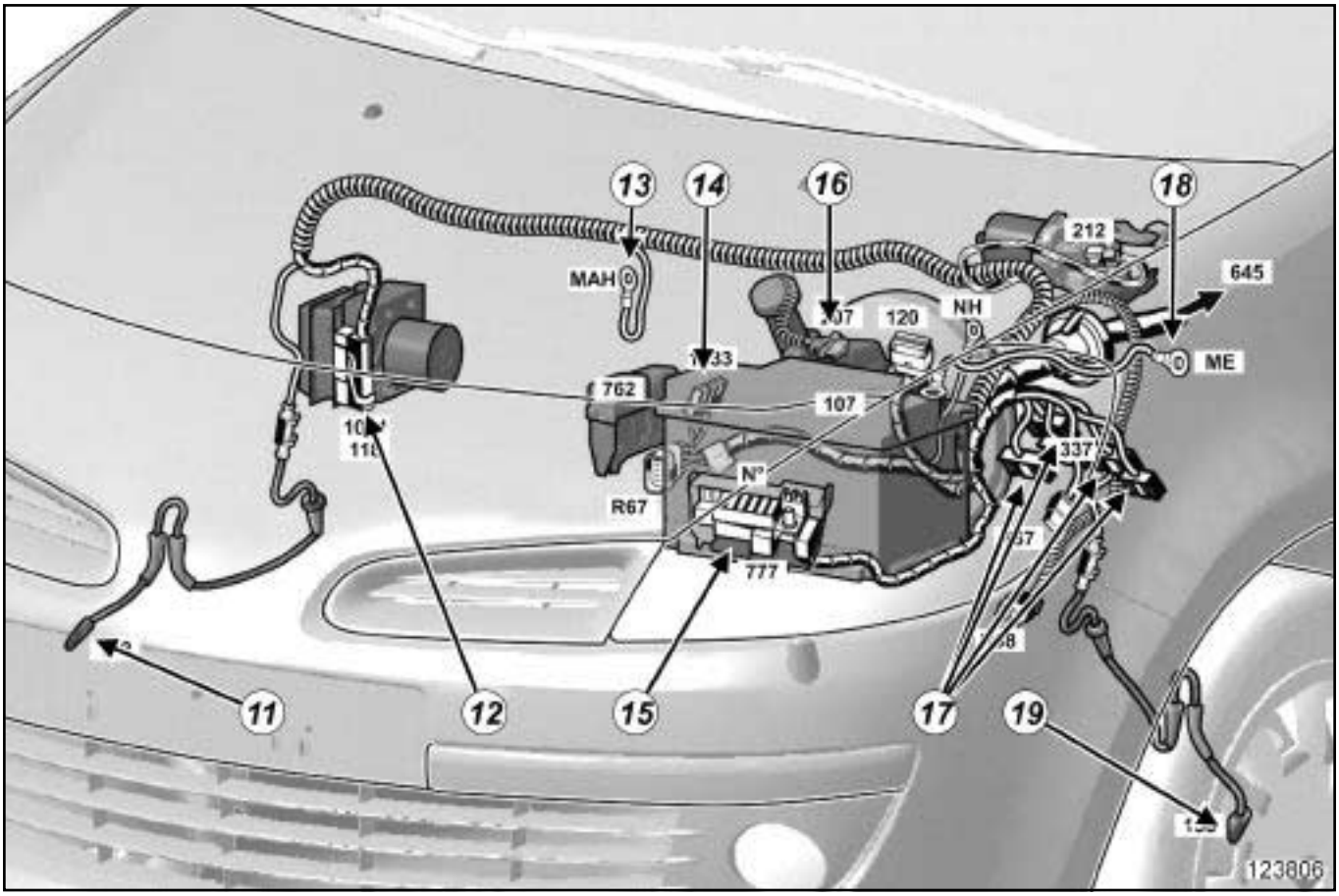
❑ Remove the earth wiring nut (**8**) from the front left-hand side member.

DISCHARGE LAMPS

❑ Disconnect:

- the headlight washer pump connector ***(9)*** ,
- the discharge bulb computer connectors ***(10)*** .

RIGHT-HAND DRIVE



123806

❏ Disconnect:

- the front right-hand wheel speed sensor connector (**11**) ,
- the brake hydraulic unit connector (**12**) .

❏ Remove the earth wiring nut (**13**) from the brake hydraulic unit.

❏ Disconnect:

- the battery protective fuse holder connectors (**14**) ,
- the power supply fuse board connector (**15**) ,
- the brake fluid level sensor connector (**16**) ,
- the Protection and Switching Unit connectors (**17**) ,

❏ Remove (**18**) the general earth wiring nut on the body.

❏ Disconnect the front left-hand wheel speed sensor connector (**19**) .



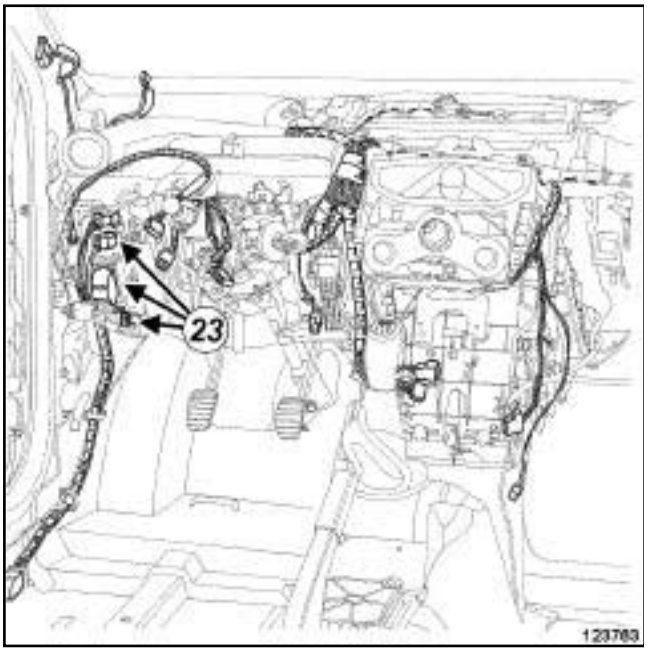
123894

❏ Disconnect:

- the accelerator pedal potentiometer connector (**20**) ,
- the brake light switch connector (**21**) ,

RIGHT-HAND DRIVE

- the clutch pedal position sensor connectors (**22**) .



123763

❏ the front left-hand wiring/dashboard wiring connection (**23**) .

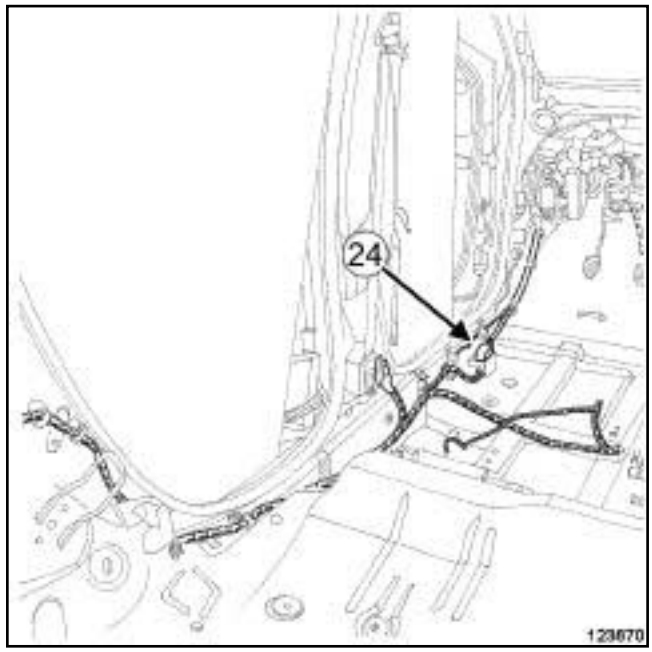
❏ Remove the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) (MR 392, 85A, Wiping - Washing).

❏ Unclip the pedal wiring.

❏ Unclip:

- the bulkhead wiring,
- the front bumper upper cross member wiring,
- the windscreen washer fluid reservoir wiring,
- the dashboard cross member wiring.

B85



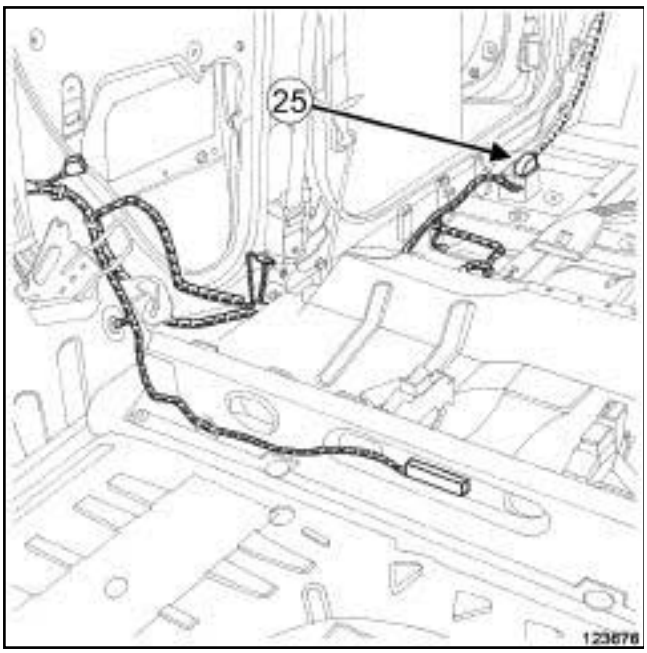
123670

❏ Disconnect the front left-hand wiring/rear left-hand wiring connection (**24**) .

❏ Unclip the front left-hand wiring.

RIGHT-HAND DRIVE

C85



123676

❑ Disconnect the front left-hand wiring/rear left-hand wiring connection (**25**) .

❑ Unclip the front left-hand wiring.

❑ Unclip the front left-hand wiring on the bulkhead.

❑ Remove the bonnet lock cable (see **Bonnet lock: Removal - Refitting**) (MR 393, 52A, Non-side opening element mechanisms).

❑ Remove the front left-hand wiring.

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

I - REFITTING PREPARATION OPERATION

❑ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the front left-hand wiring,
- the bonnet lock cable (see **Bonnet lock: Removal - Refitting**) (MR 393, 52A, Non-side opening element mechanisms).

❑ Clip:

- the front left-hand wiring on the bulkhead,
- the front left-hand wiring.

❑ Connect the front left-hand wiring/rear left-hand wiring connection.

❑ Clip:

- the dashboard cross member wiring,
- the windscreen washer fluid reservoir wiring,
- the front bumper upper cross member wiring,
- the bulkhead wiring.

❑ Clip the pedal wiring.

❑ Refit the windscreen wiper mechanism (see **85A**, **Wiping - Washing**, **Windscreen wiper mechanism: Removal - Refitting**, page **85A-10**) (MR 392, 85A, Wiping - Washing).

❑ Connect:

- the front left-hand wiring/dashboard wiring connection,
- the clutch pedal position sensor connectors,
- the brake light switch connector,
- the accelerator pedal potentiometer connector.

❑ Disconnect the front left-hand wheel speed sensor connector.

❑ Refit the general earth wiring nut on the body.

❑ Torque tighten the **earth cable nut on the body (8 Nm)**.

❑ Connect:

- the Protection and Switching Unit connectors,
- the brake fluid level sensor connector,
- the power supply fuse board connector,
- the battery protective fuse holder connectors.

❑ Refit the earth wiring nut to the brake hydraulic unit.

❑ Torque tighten the **earth wiring nut to the brake hydraulic unit (8 Nm)**.

RIGHT-HAND DRIVE

❑ Connect:

- the brake hydraulic unit connector,
- the front right-hand wheel speed sensor connector.

DISCHARGE LAMPS

❑ Connect:

- the discharge bulb computer connectors,
- the headlight washer pump connector.

❑ Refit the earth wiring nut on the front left-hand side member.

❑ Torque tighten the **earth wiring nut on the front left-hand side member (8 Nm.)**

❑ Connect:

- the left-hand headlight connectors,
- the horn connector,
- the bonnet switch connector,
- the right-hand headlight connectors.

❑ Refit the earth wiring nut on the front right-hand side member.

❑ Torque tighten the **earth wiring nut on the front right-hand side member (8 Nm.)**

❑ Disconnect the bidirectional windscreen and rear screen washer pump connector.

FINAL OPERATION.

❑ Refit:

- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❑ Tighten the bolts on the Protection and Switching Unit cover.

❑ Refit:

- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the injection computer support.

K9K

❑ Remove the diesel injection computer (see **Diesel injection computer: Removal - Refitting**) (MR 392, 13B, Diesel injection).

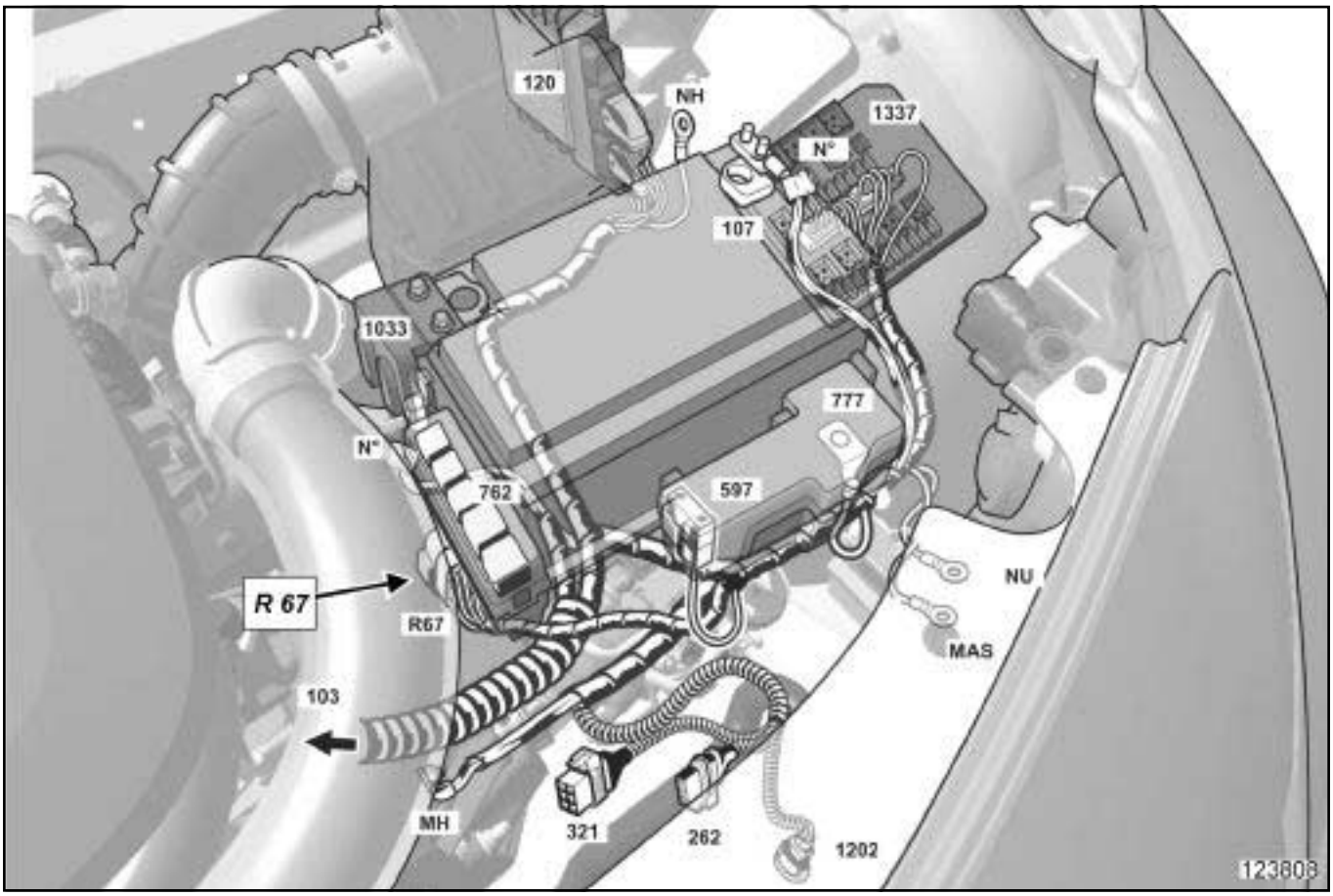
D4F or F4R or K4J or K4M or M4R

❑ Remove the petrol injection computer (see **Petrol injection computer: Removal - Refitting**) (MR 392, 17B, Petrol injection).

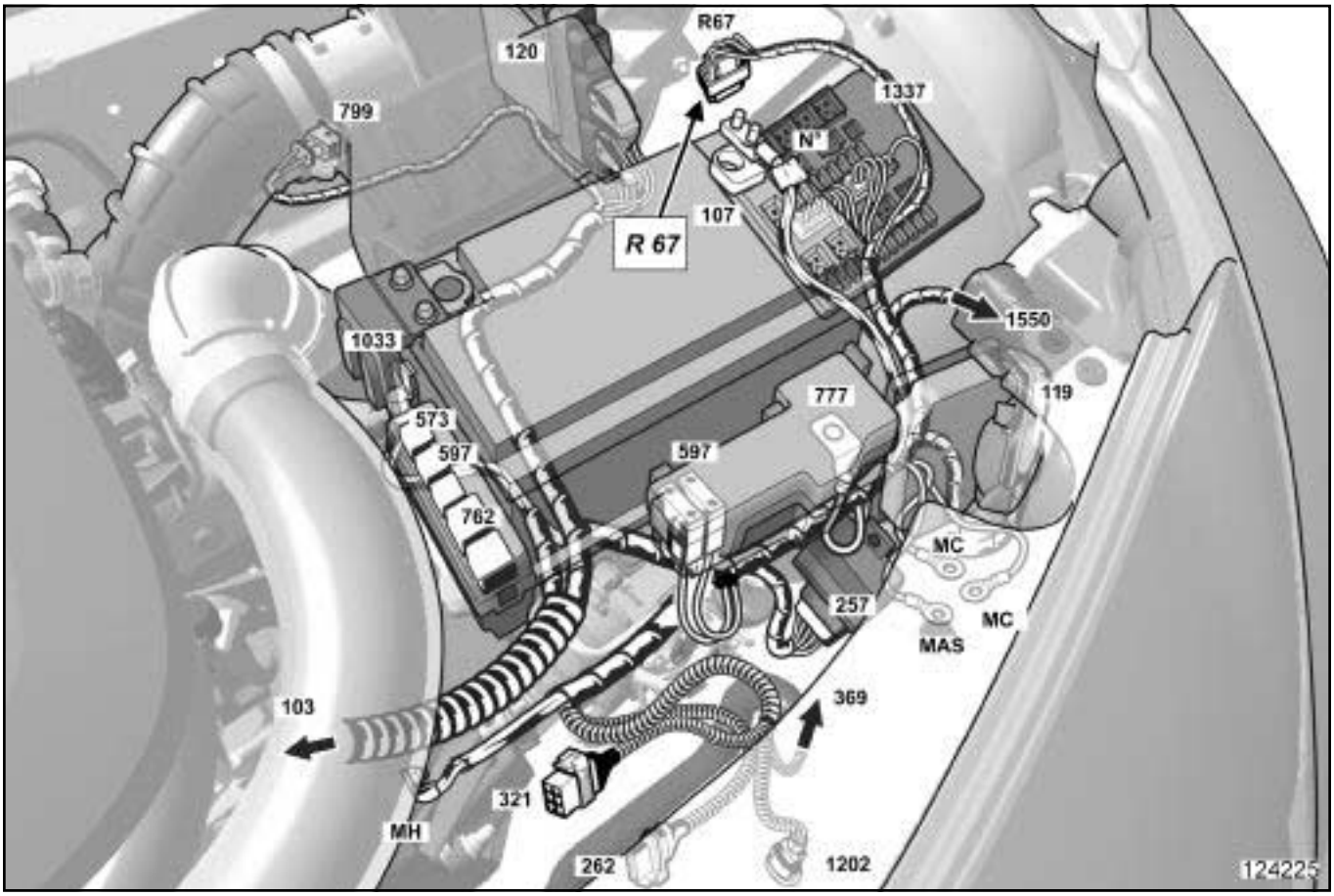
❑ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter unit (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

I - LOCATION OF CONNECTORS



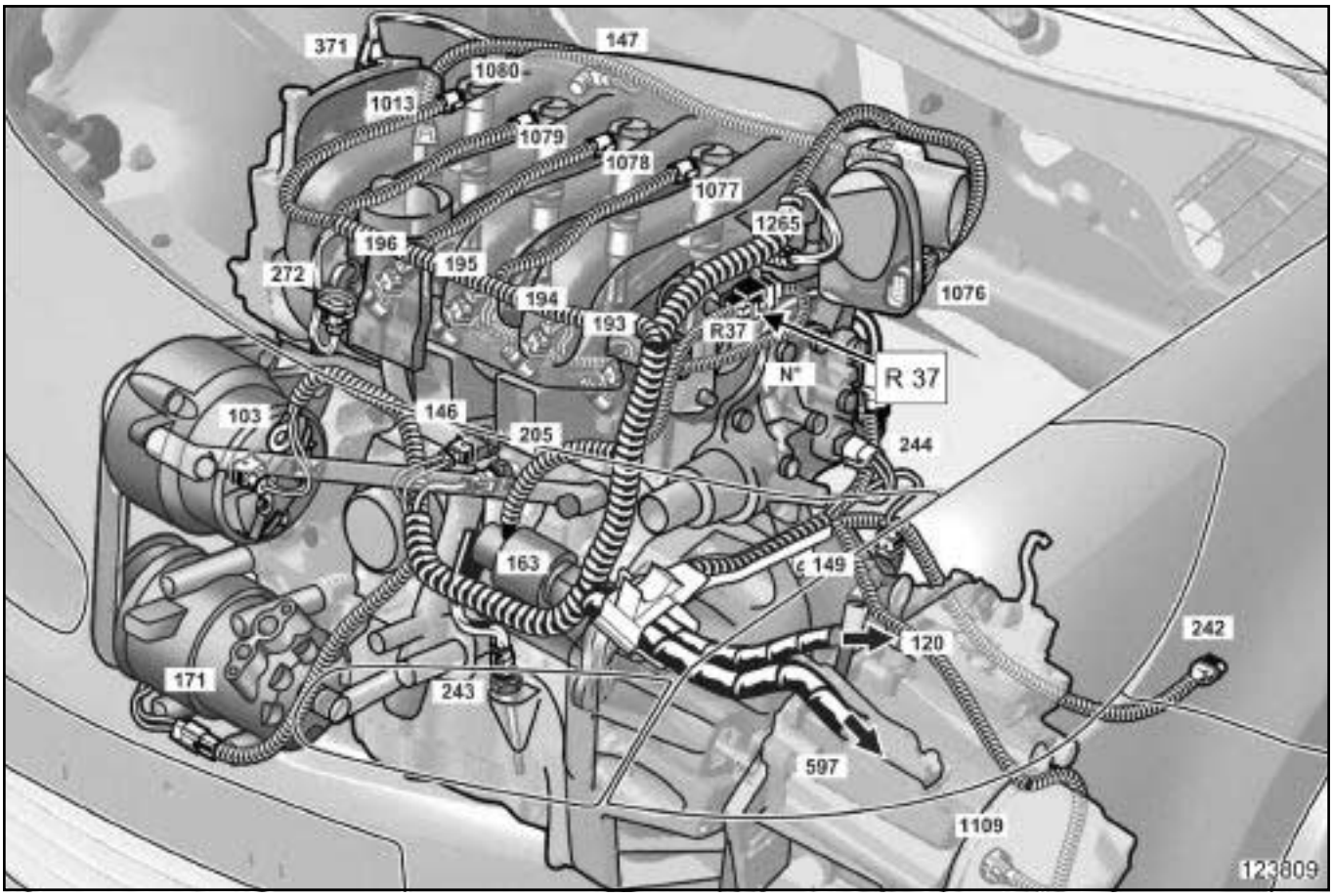
123808



124225

- R 67 connector (Engine wiring harness/front left-hand wiring connection).
- Depending on the engine, connection R 67 is composed of three or four connectors.

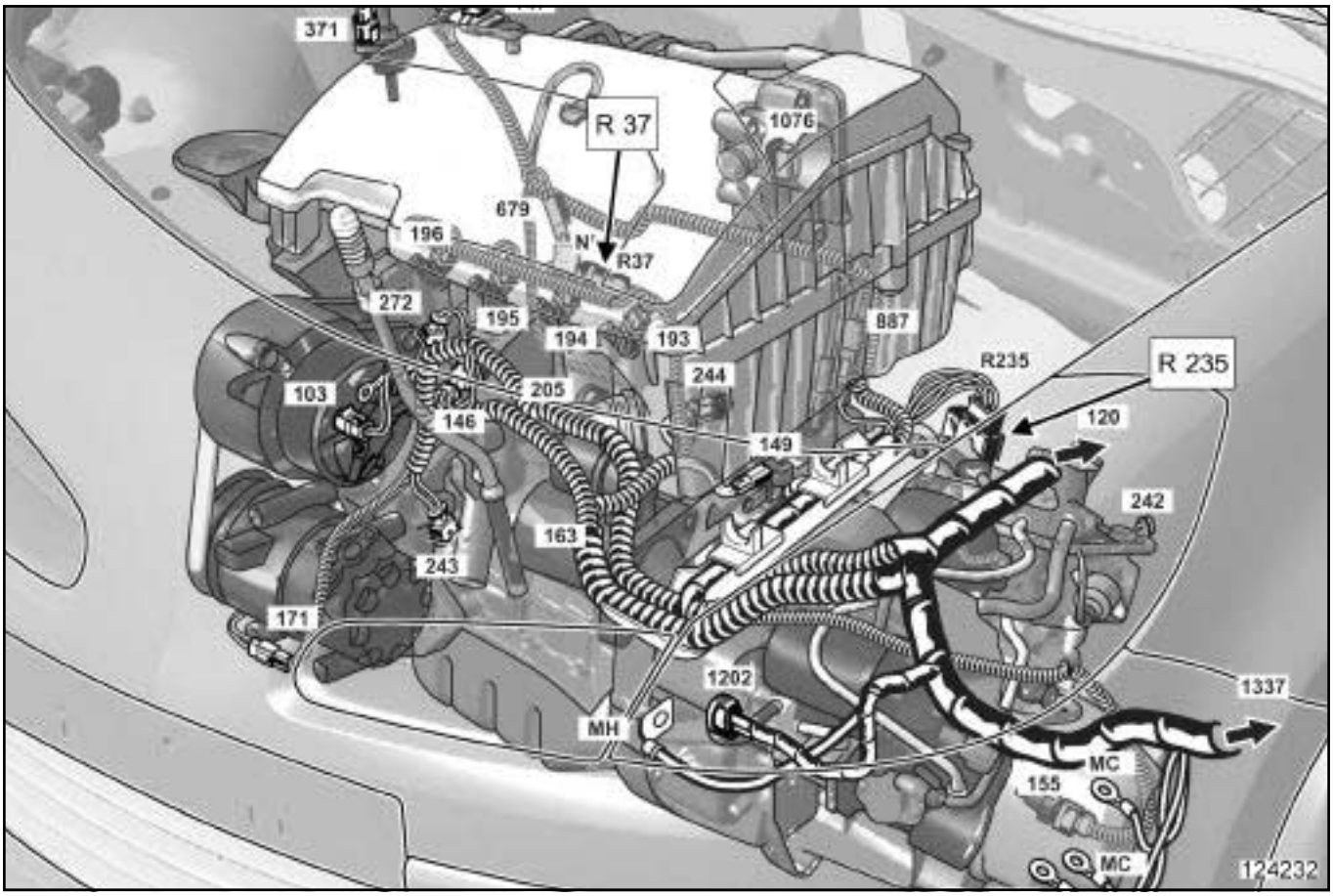
K4J or K4M



123809

❑ R 37 connector (Engine wiring harness/injection connection).

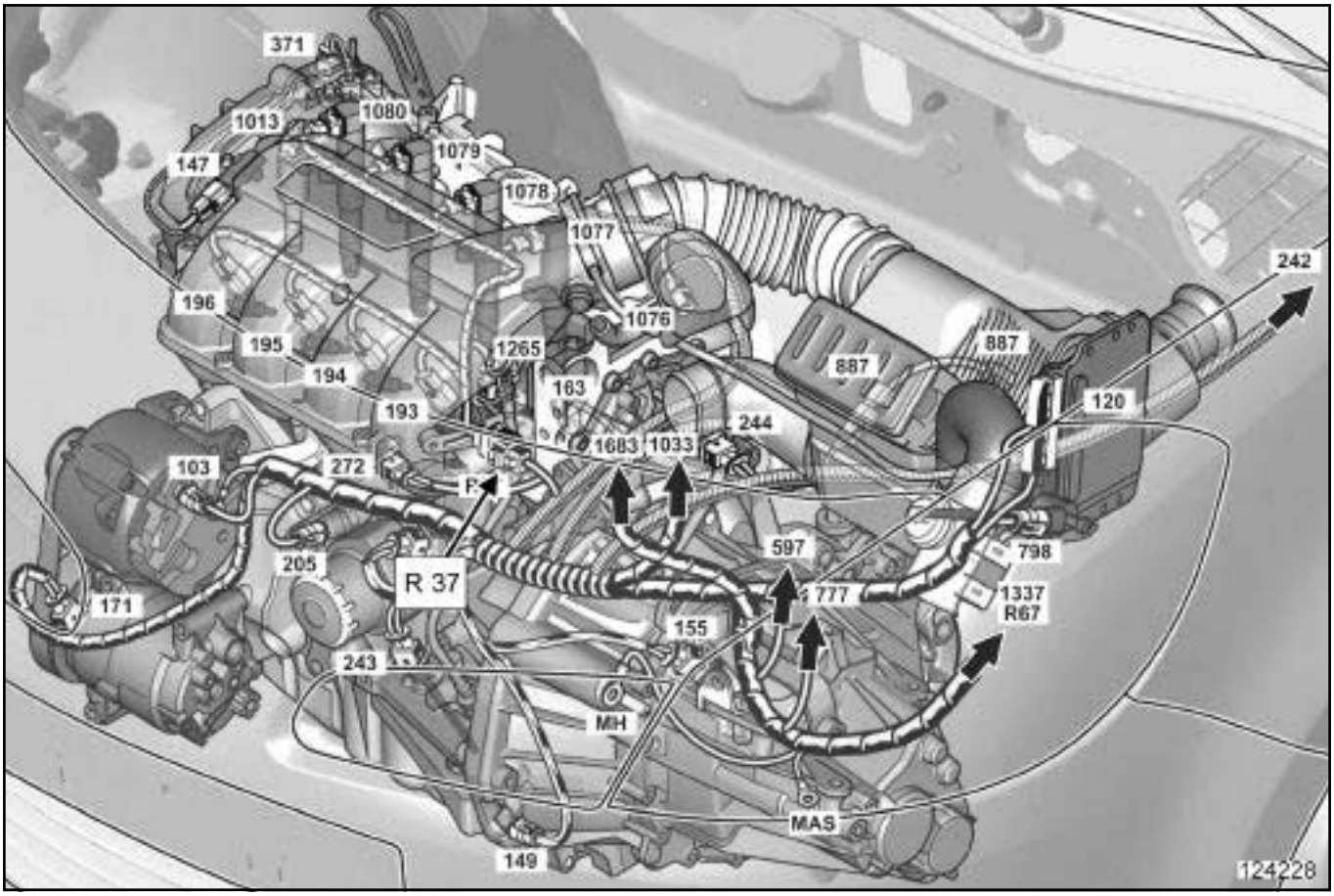
D4F



124232

- R 37 connector (Engine wiring harness/injection connection).
- R 235 connector (Automatic transmission wiring/ dashboard wiring connection).

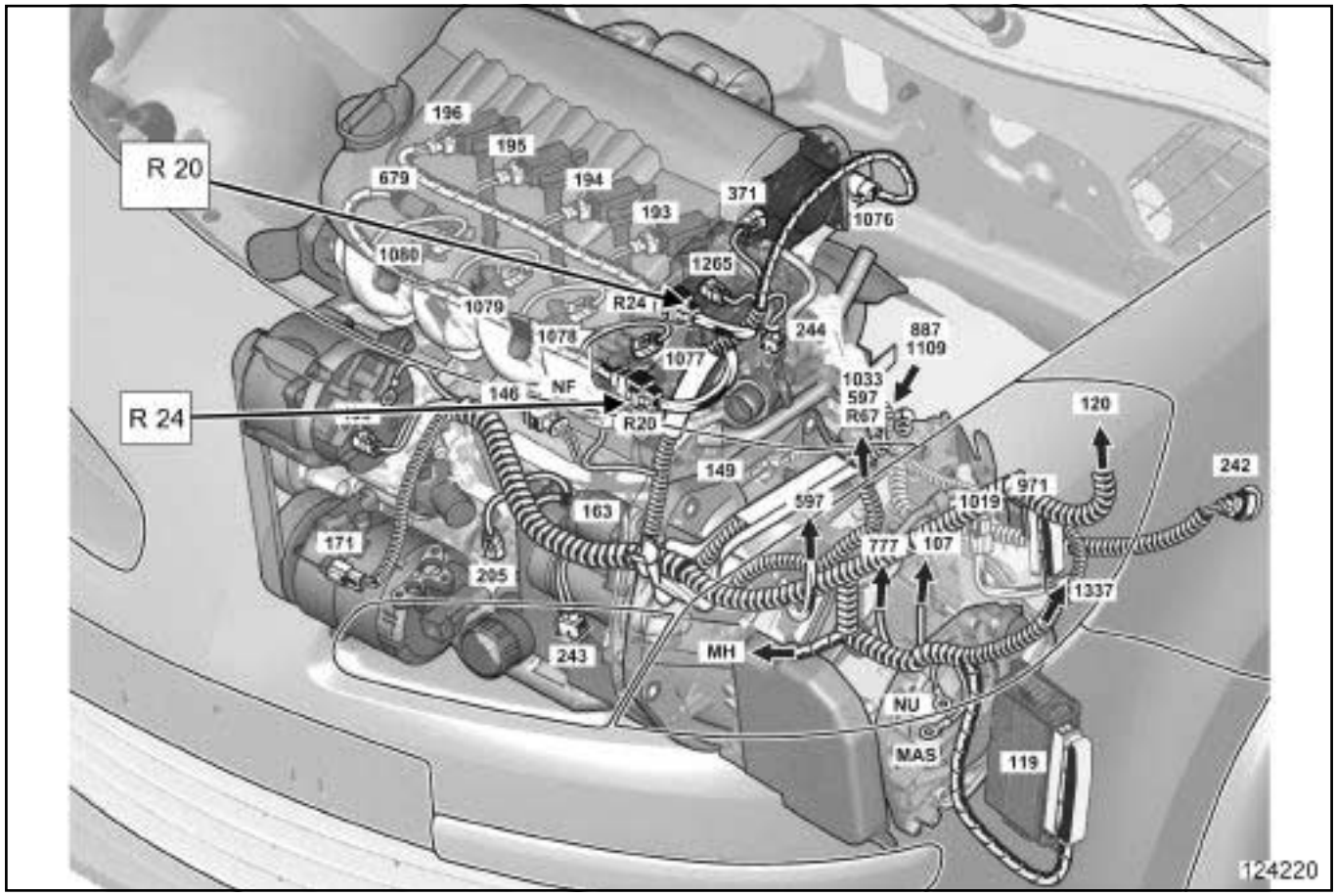
F4R



124228

❑ R 37 connector (Engine wiring harness/injection connection).

M4R



124220

- ❏ R 20 connector (Engine wiring harness/injection connection).
- ❏ R 24 connector (Engine wiring harness/injection connection).

II - ACCESS TO CONNECTORS

❏

IMPORTANT

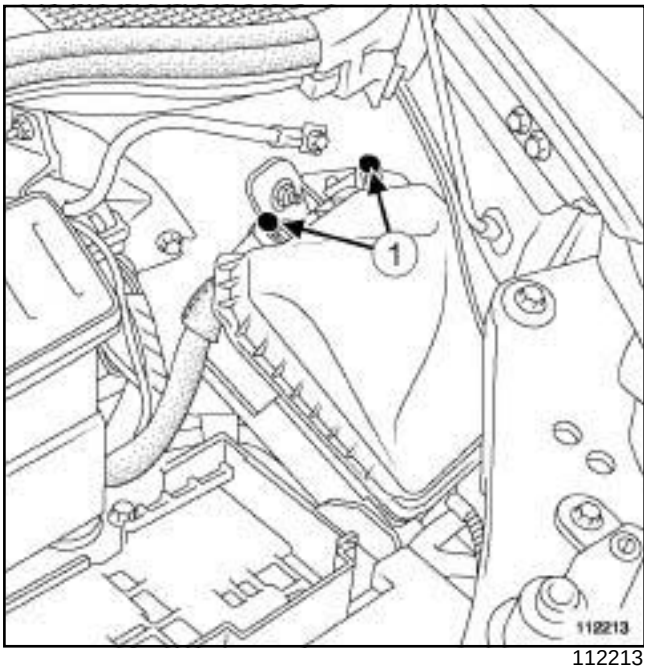
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

- ❏ Switch off the ignition.
- ❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**)

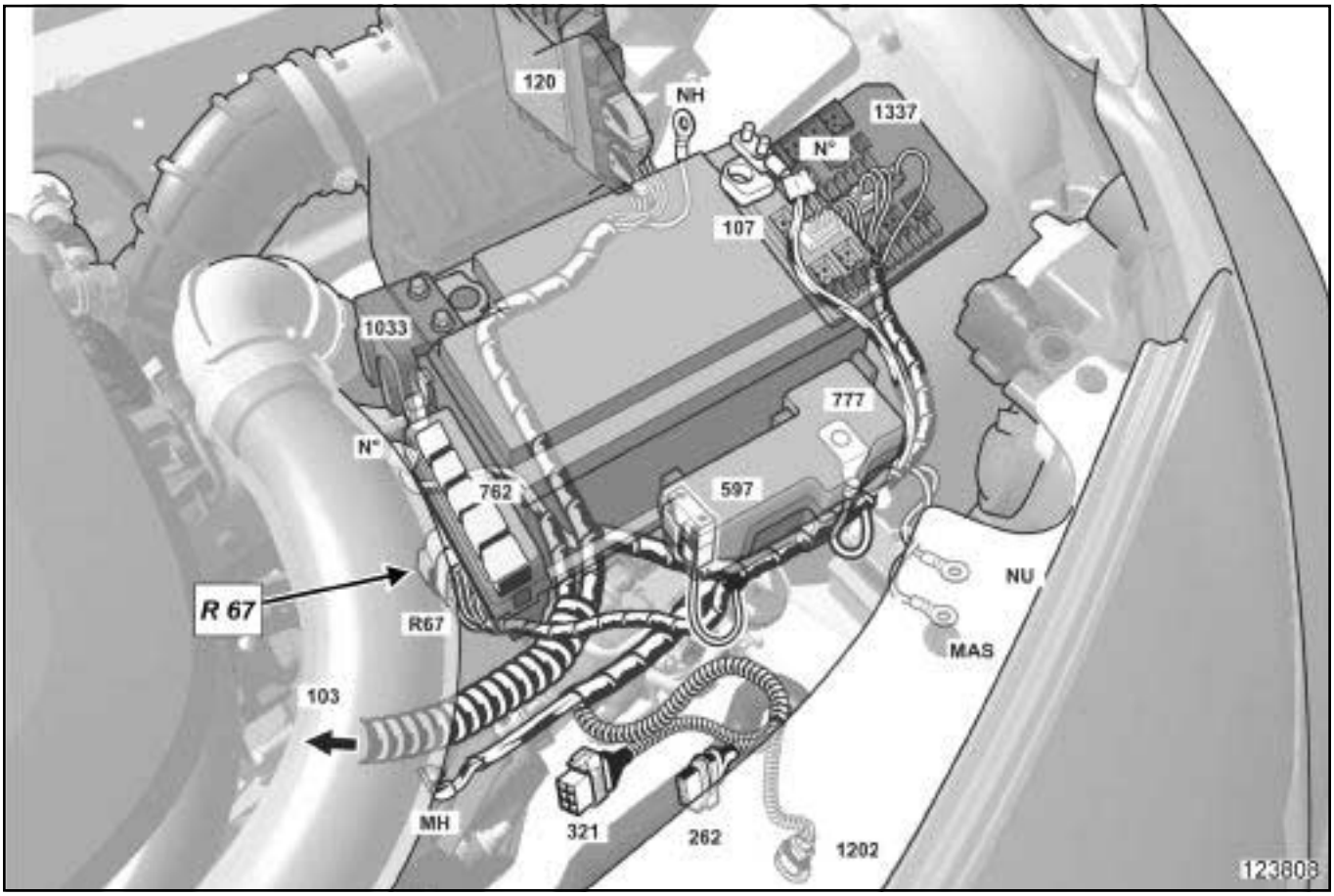
1 - Access to the R 67 connectors



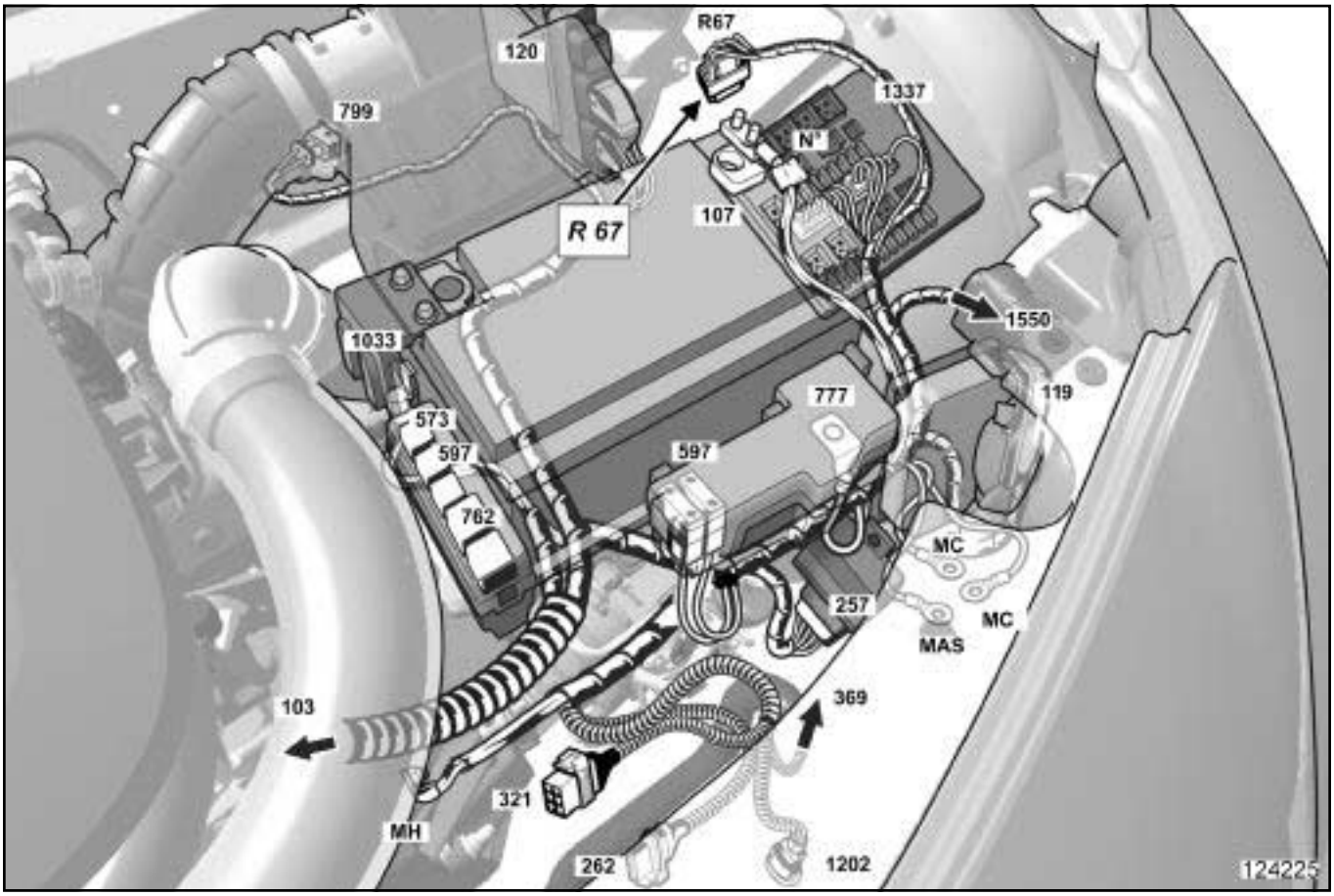
112213

❏ Remove:

- the bolts (**1**) ,
- the Protection and Switching Unit cover.


120
NH
1337
N°
107
1033
777
N°
762
597
R 67
R67
NU
MAS
103
MH
321
262
1202
123808

123808



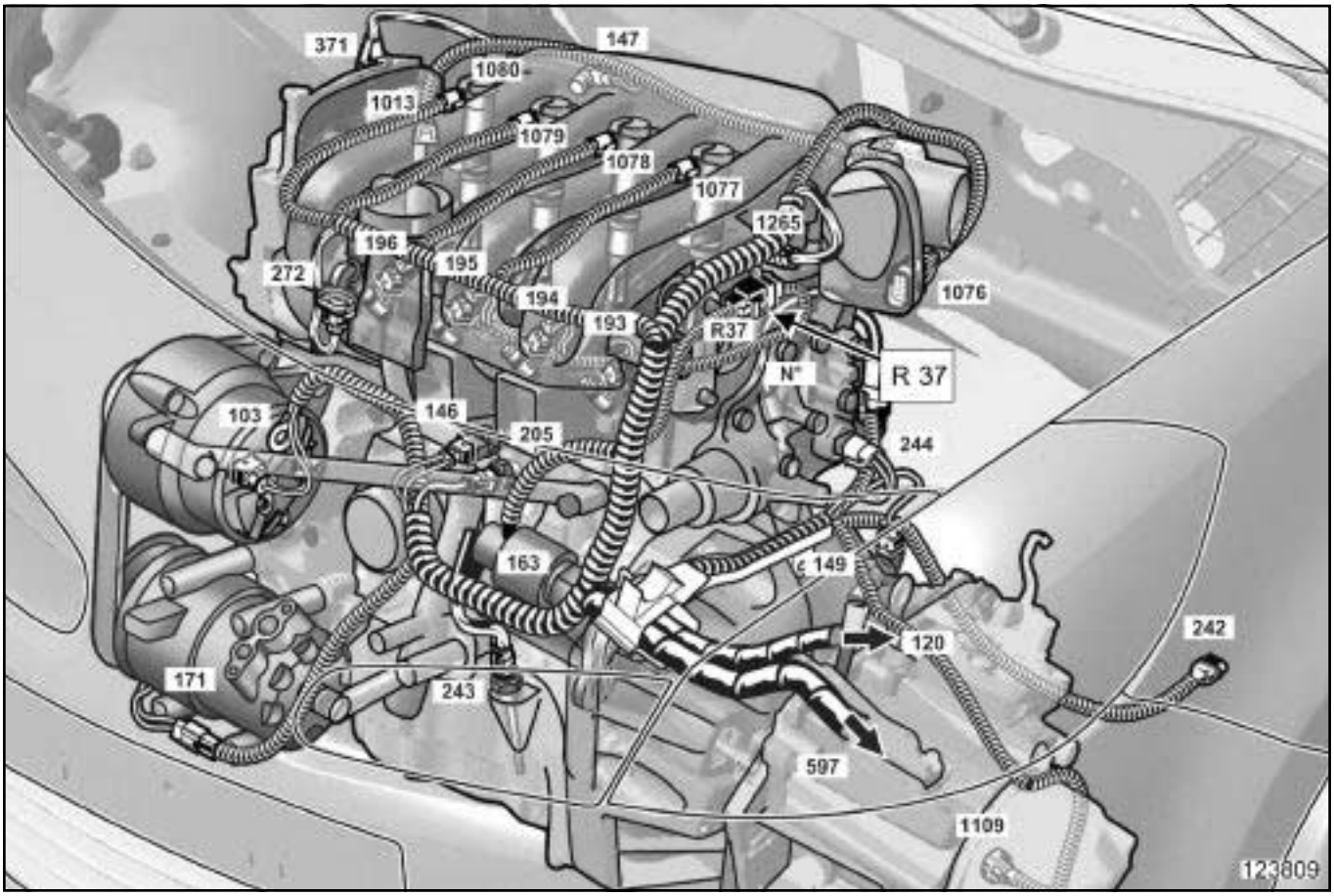
124225

❑ Disconnect the R 67 connectors.

2 - Access to the R 37 connector

K4J or K4M

❑ Remove the front engine cover.

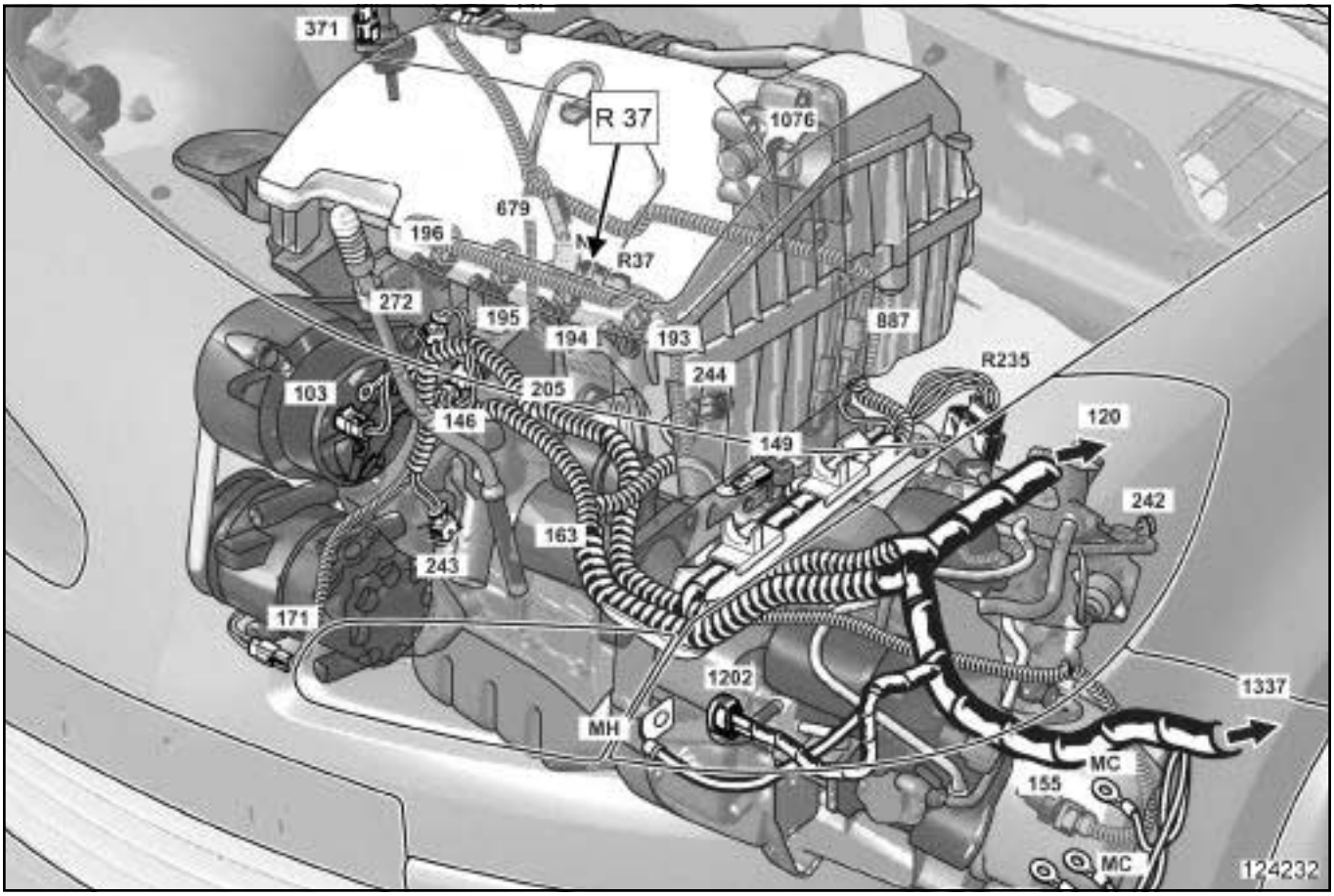


123809

❑ Disconnect the R 37 connector.

D4F

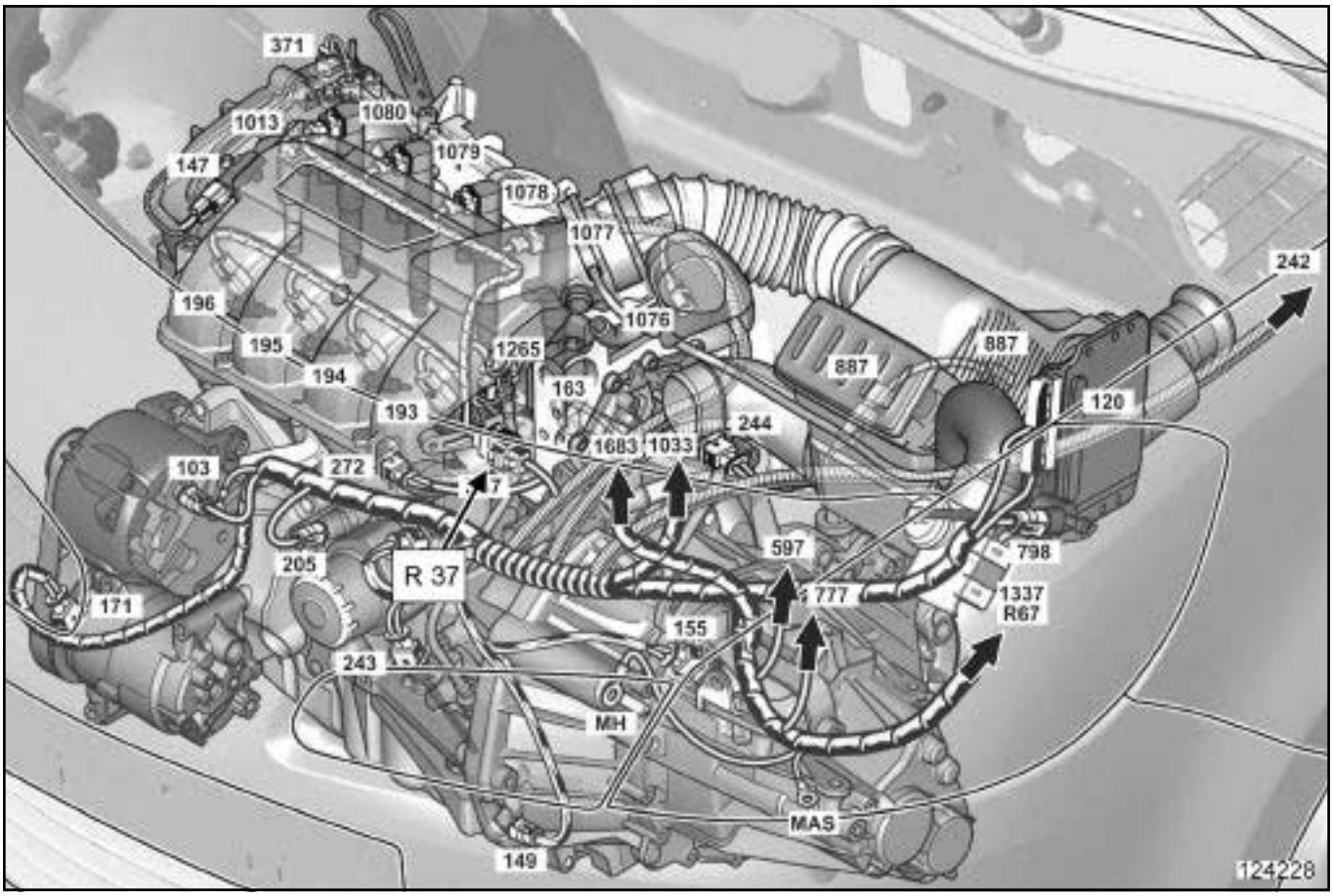
❑ Remove the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture).



124232

❑ Disconnect the R 37 connector.

F4R



124228

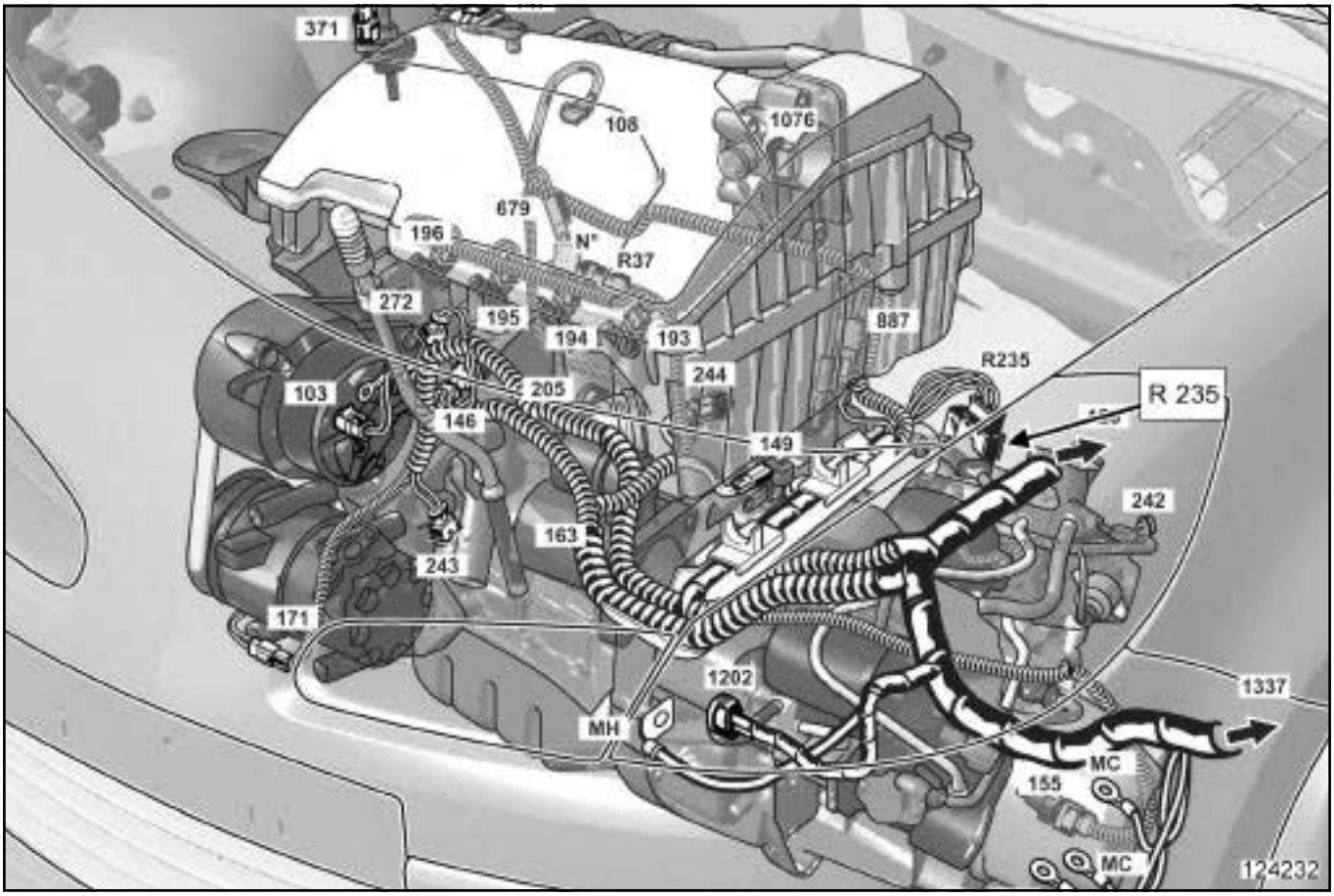
❑ Disconnect the R 37 connector.

3 - Access to the R 235 connector

D4F

❑ Remove:

- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the battery tray bracket (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) .



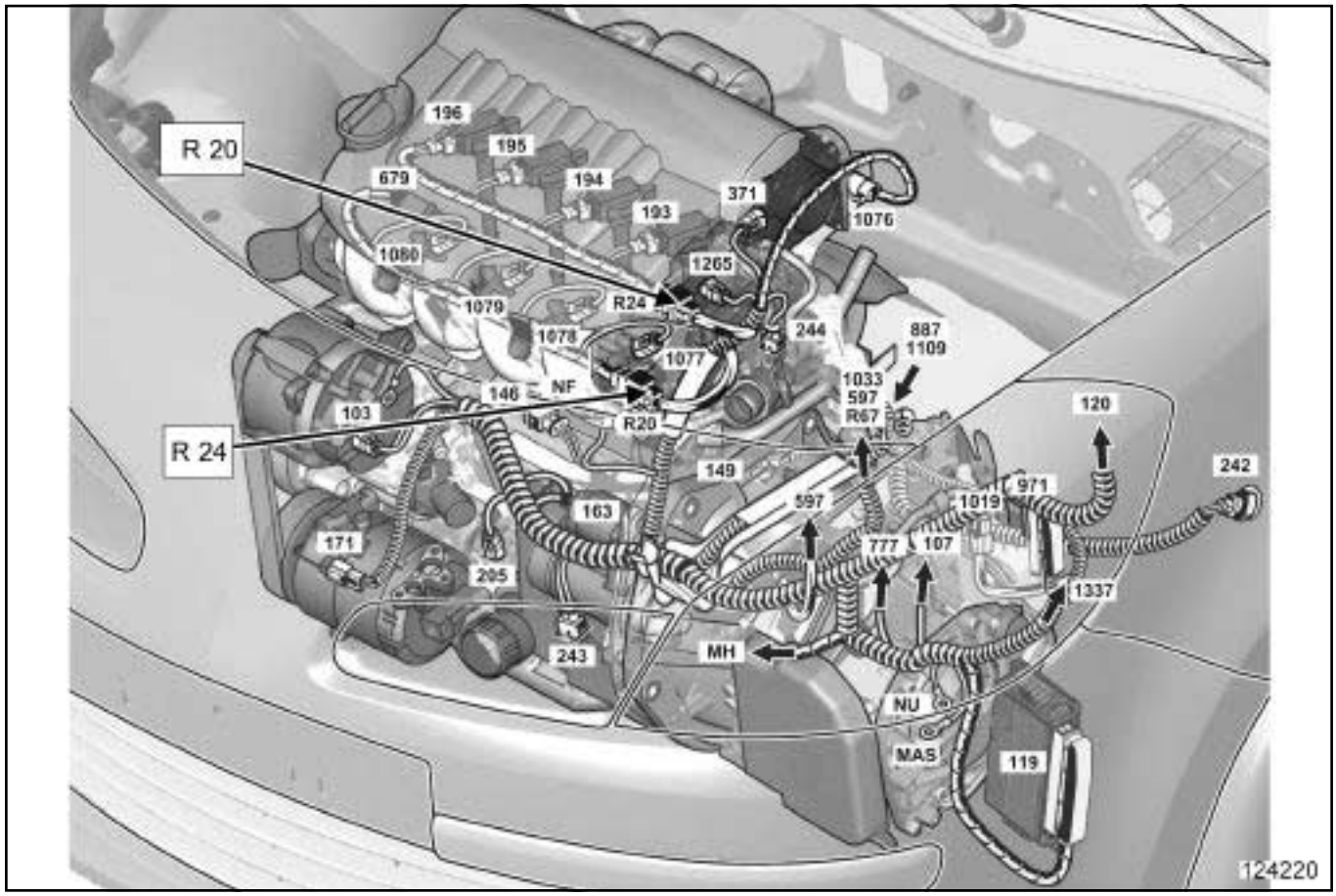
124232

❑ Disconnect the R 235 connector.

4 - Access to the R 20 and R 24 connectors

M4R

❑ Remove the front engine cover.



124220

❑ Disconnect the R 20 and R 24 connectors.

K4J or K4M

Tightening torques ▽	
earth nuts on the front left-hand side member	**8 N.m**
nut from the power feed fuse board cable	**6 Nm**
fuel injection computer earth wiring nut	**8 Nm**
earth wiring bolt on the manual gearbox	**24 Nm**
earth wiring bolt on the automatic transmission	**44 Nm**
nut on the excitation terminal of the starter	**5 Nm**
nut on the positive terminal of the starter	**8 Nm**
alternator positive terminal nut	**24 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

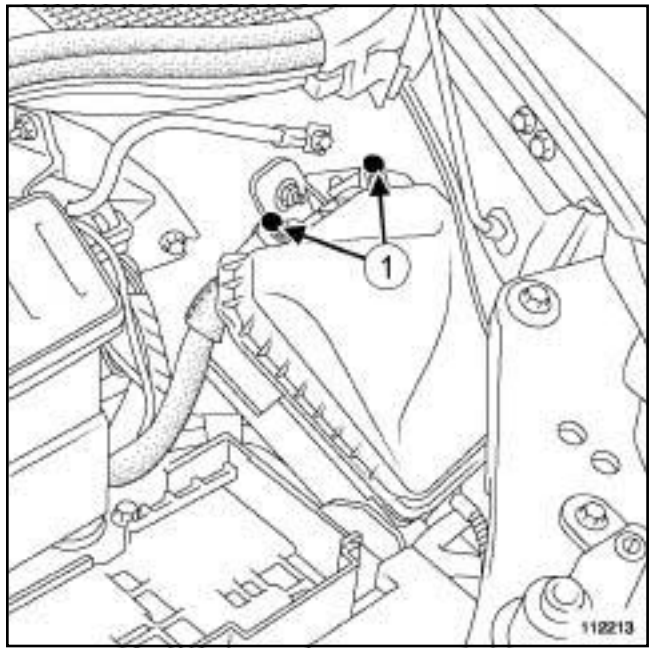
I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the engine cover,
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



112213

❑ Remove:

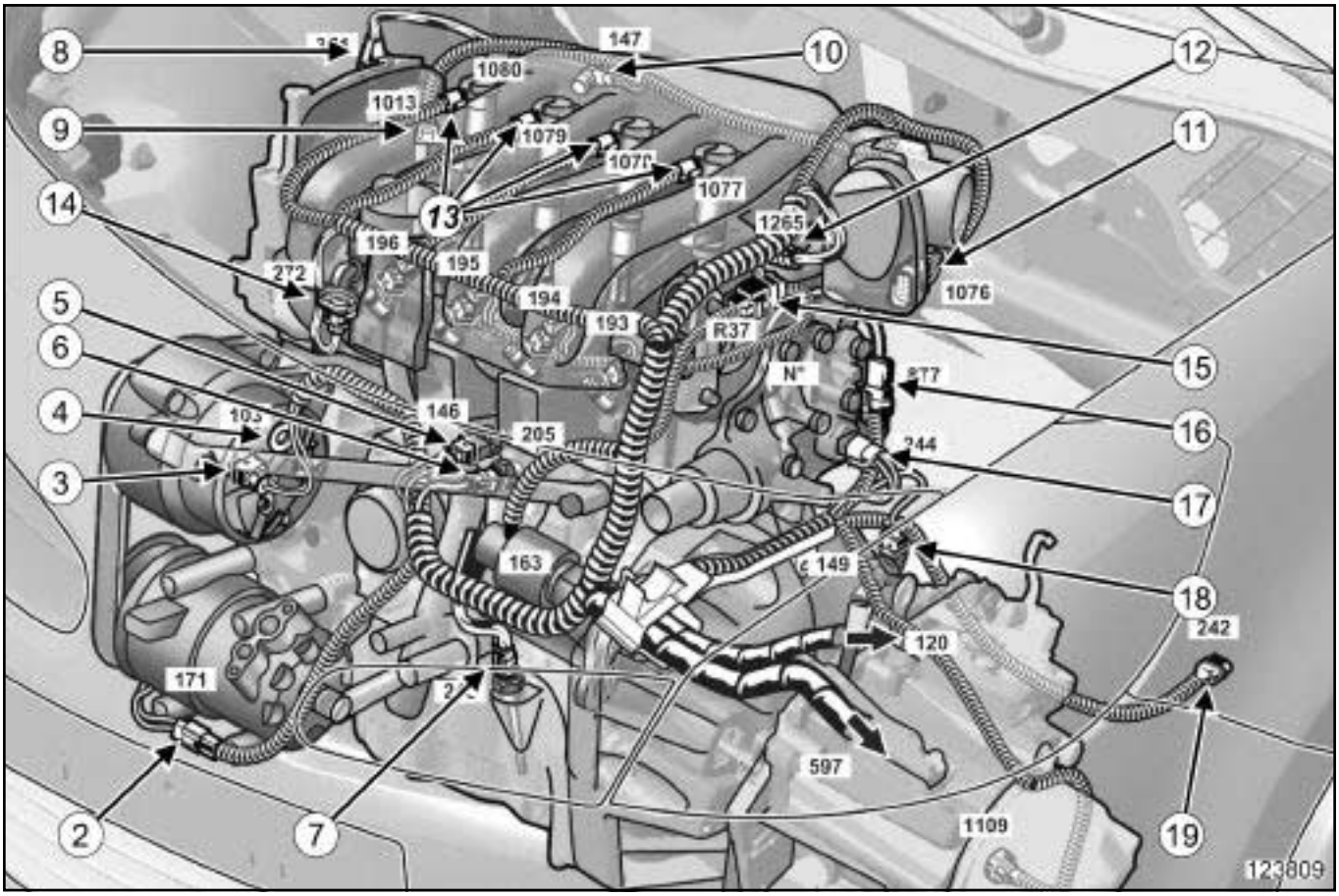
- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

K4J or K4M



123809

❏ Disconnect:

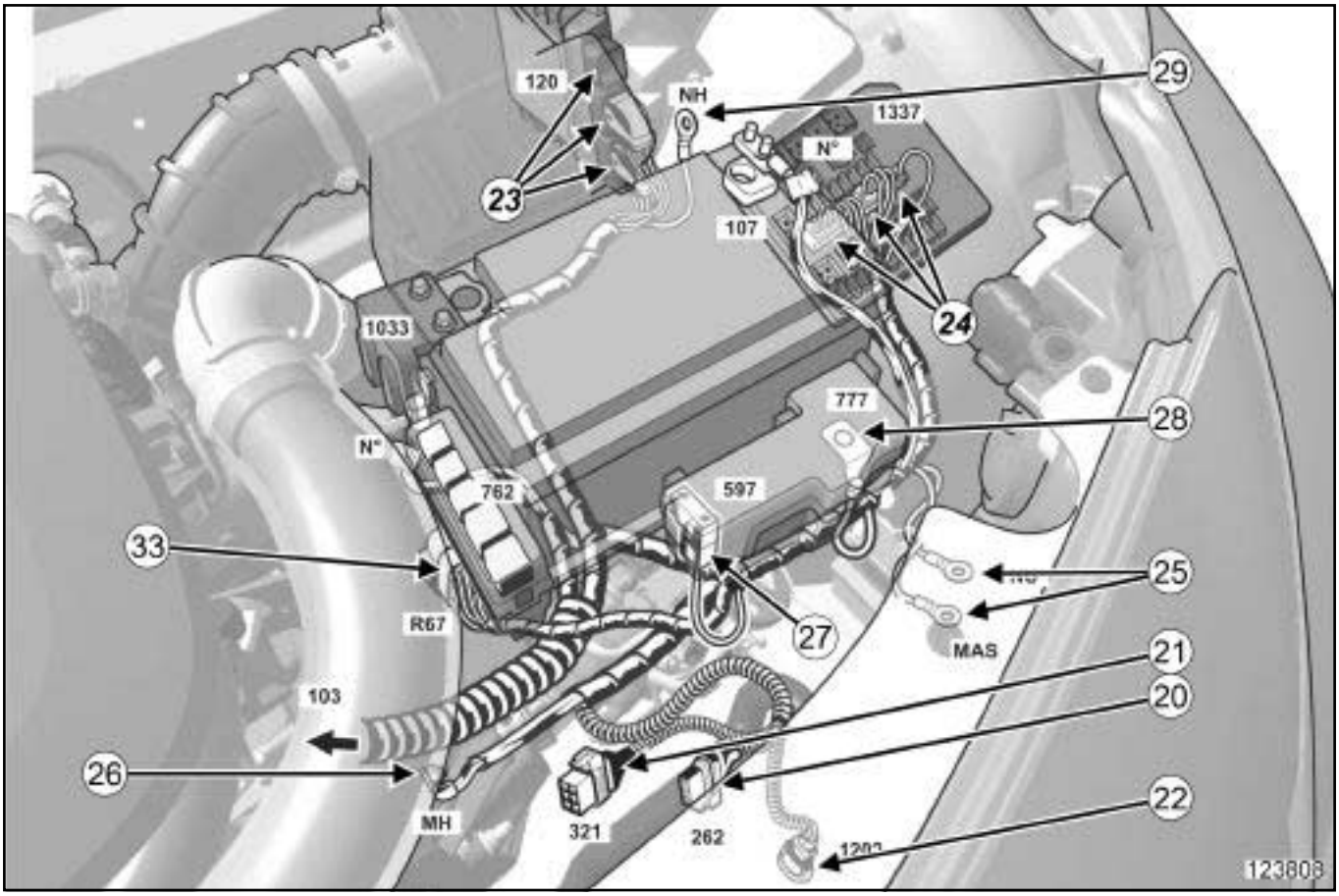
- the air conditioning compressor connector (**2**) ,
- the alternator exciter connector (**3**) .

❏ Remove the nut (**4**) from the alternator positive terminal.

❏ Disconnect:

- the pinking sensor connector (**5**) ,
- the connector (**6**) from the oil pressure sensor,
- the oil level sensor connector (**7**) ,
- the fuel vapour absorber solenoid valve connector (**8**) ,
- the camshaft dephaser solenoid valve connector (**9**) ,
- the inlet air pressure sensor connector (**10**) ,
- the throttle valve connector (**11**) ,
- the connector (**12**) from the camshaft position sensor,
- all coil connectors (**13**) ,
- the connector (**14**) from the air temperature sensor,
- the engine wiring/injection wiring connection (**15**) ,
- the upstream oxygen sensor connector (**16**) ,
- the coolant temperature sensor connector (**17**) ,
- ,the crankshaft position sensor connector (**18**) ,
- the downstream oxygen sensor connector (**19**) .

K4J or K4M



123808

❑ Remove the air resonator unit (see **Air resonator: Removal - Refitting**) (MR 392, 12A, Fuel mixture).

❑ Disconnect:

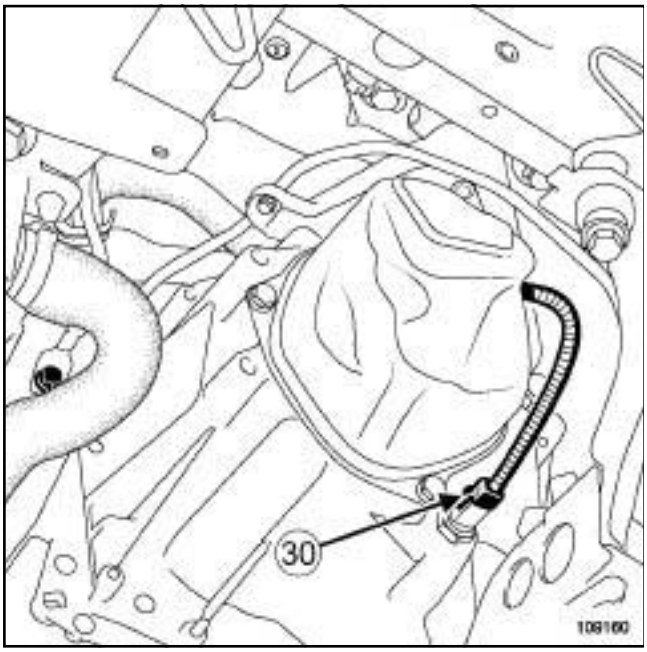
- the engine cooling fan assembly connector (**20**) ,
- the engine cooling fan assembly resistor connector (**21**) ,
- the refrigerant pressure sensor connector (**22**) ,
- the fuel injection computer connectors (**23**) ,
- the front left-hand wiring connector (**33**) ,
- the Protection and Switching Unit connectors (**24**) ,

❑ Remove:

- the nut on the excitation terminal of the starter,
- the nut on the positive terminal of the starter,
- all earth cable nuts on the front left-hand side member (**25**) ,
- the earth wiring bolt on the gearbox (**26**) ,
- the 30 A fuse from the power feed fuse board,
- the fuse holder (**27**) ,
- the nut (**28**) from the power feed fuse board cable,
- the fuel injection computer earth wiring nut (**29**) .

K4J or K4M

JH3 or JR5

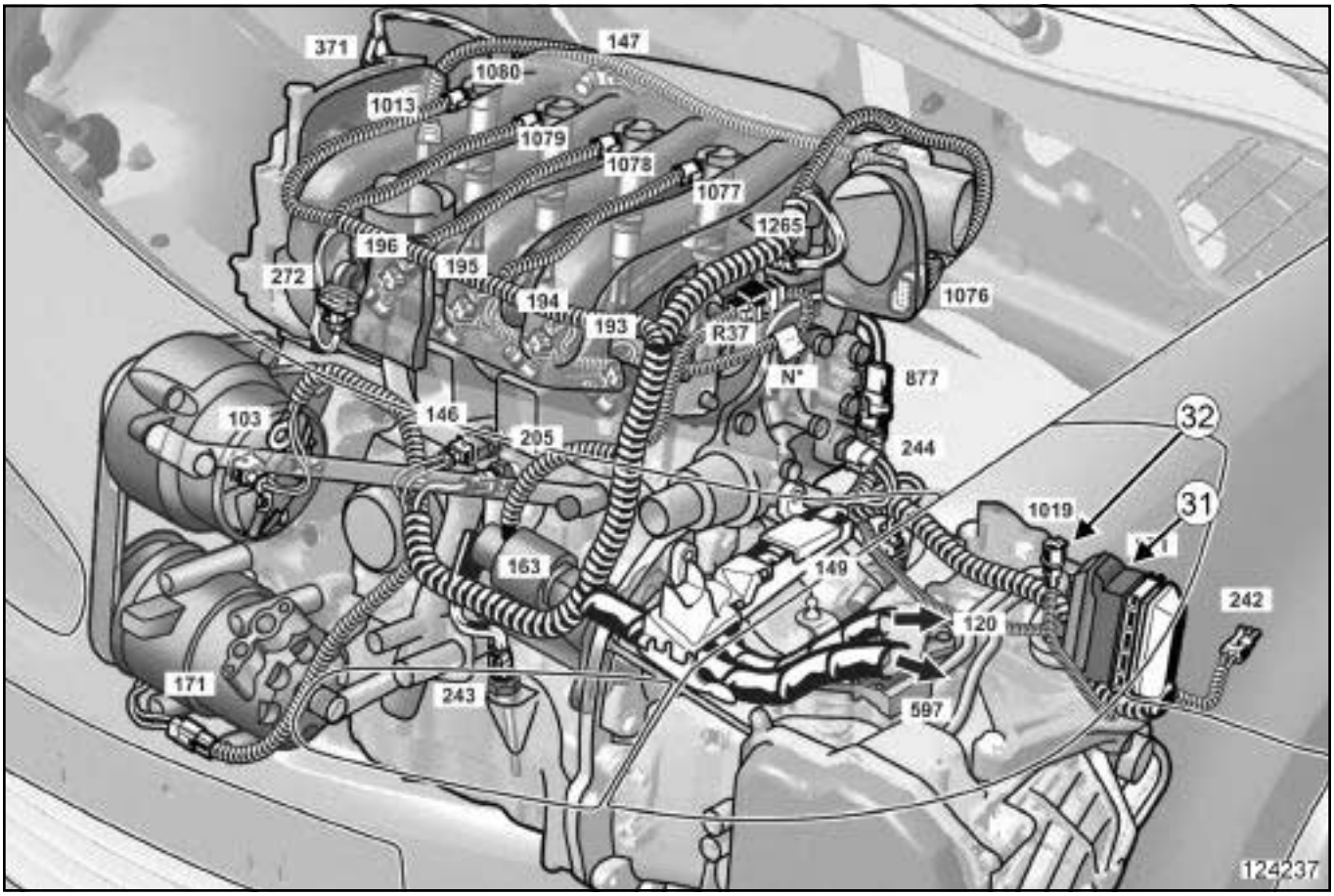


109160

❏ Disconnect the reverse gear switch connector (**30**) .

K4J or K4M

DP0



124237

❑ Remove:

- the left-hand suspended engine mounting (see **Left-hand suspended engine mounting: Removal - Refitting**) (MR 392, 19D, Engine mounting),
- the automatic transmission computer (see **Automatic gearbox converter: Removal - Refitting**) (MR 392, 23A, Automatic transmission),

❑ Disconnect:

- the flow control solenoid valve connector (**32**) ,
- the automatic transmission module connector (**31**) ,

WARNING
Protect the connector by sliding it into a waterproof plastic bag.

❑

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❑ Unclip:

- the sub-frame and cylinder block wiring,
- the engine cooling fan assembly wiring,
- the intake manifold wiring.

❑ Remove:

- the engine wiring harness mounting bolt on the clutch housing,
- the engine wiring harness.

K4J or K4M

REFITTING

I - REFITTING PREPARATION OPERATION

❑ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the engine wiring,
- the engine wiring harness mounting bolt on the clutch housing,

❑ Tighten the engine wiring harness mounting bolt on the clutch housing,

DP0

❑ Connect:

- the automatic transmission module connector,
- the flow control solenoid valve connector.

❑ Refit:

- the left-hand suspended engine mounting (see **Left-hand suspended engine mounting: Removal - Refitting**) (MR 392, 19D, Engine mounting),
- the automatic transmission computer (see **Automatic gearbox converter: Removal - Refitting**) (MR 392, 23A, Automatic transmission),

JH3 or JR5

❑ Connect the reverse gear switch connector.

❑ Refit the automatic transmission and engine cooling fan assembly earth wiring nuts on the front left-hand side member.

❑ Torque tighten the **earth nuts on the front left-hand side member (8 N.m)**.

❑ Refit the nut from the power feed fuse board cable.

❑ Torque tighten the **nut from the power feed fuse board cable (6 Nm)**.

❑ Refit:

- the fuse holder,
- the 30 A fuse from the power feed fuse board.

❑ Refit the fuel injection computer earth cable nut.

❑ Torque tighten the **fuel injection computer earth wiring nut (8 Nm)**.

JH3 or JR5

❑ Refit the earth wiring bolt on the gearbox.

❑ Torque tighten the **earth wiring bolt on the manual gearbox (24 Nm)**.

DP0

❑ Refit the earth wiring bolt on the gearbox.

❑ Torque tighten the **earth wiring bolt on the automatic transmission (44 Nm)**.

❑ Refit:

- the nut on the excitation terminal of the starter,
- the nut on the positive terminal of the starter.

❑ Tighten to torque:

- the **nut on the excitation terminal of the starter (5 Nm)**.
- the **nut on the positive terminal of the starter (8 Nm)**.

❑ Connect:

- the Protection and Switching Unit connectors,
- The front left-hand wiring connector,
- the fuel injection computer connectors,
- the refrigerant pressure sensor connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector.

❑ Refit the air resonator unit (see **Air resonator: Removal - Refitting**) (MR 392, 12A, Fuel mixture).

❑ Connect:

- the downstream oxygen sensor connector,
- the crankshaft position sensor connector,
- the coolant temperature sensor connector,
- the upstream oxygen sensor connector,
- the engine wiring/injection wiring connection,

- the air temperature sensor connector,
- all coil connectors,
- the camshaft position sensor connector,
- the throttle valve connector,
- the air inlet pressure sensor connector,
- the camshaft dephaser solenoid valve connector,
- the fuel vapour absorber solenoid valve connector,
- the oil level sensor connector,
- the oil pressure sensor connector,
- the pinking sensor connector.

❏ Refit the alternator positive terminal nut.

❏ Torque tighten the **alternator positive terminal nut (24 Nm)**.

❏ Connect:

- the alternator exciter connector,
- the air conditioning compressor connector,

❏ Clip:

- the sub-frame and cylinder block wiring,
- the engine cooling fan assembly wiring,
- the intake manifold wiring.

III - FINAL OPERATION.

❏ Refit:

- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❏ Tighten the bolts on the Protection and Switching Unit cover.

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the engine cover.

K9K

Tightening torques ▽	
sequential gearbox earth wiring nuts on the front left-hand side member	**8 Nm**
heating element nuts	**4 Nm**
earth wiring bolt from the heating element unit support on the gearbox	**21 Nm**
nut from the power feed fuse board cable	**6 Nm**
engine cooling fan assembly earth cable nut on the front left-hand side member	**8 Nm**
earth wiring bolt on the gearbox	**24 Nm**
nut on the positive terminal of the starter	**8 Nm**
nut on the positive terminal of the starter	**5 Nm**
alternator positive terminal nut	**24 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

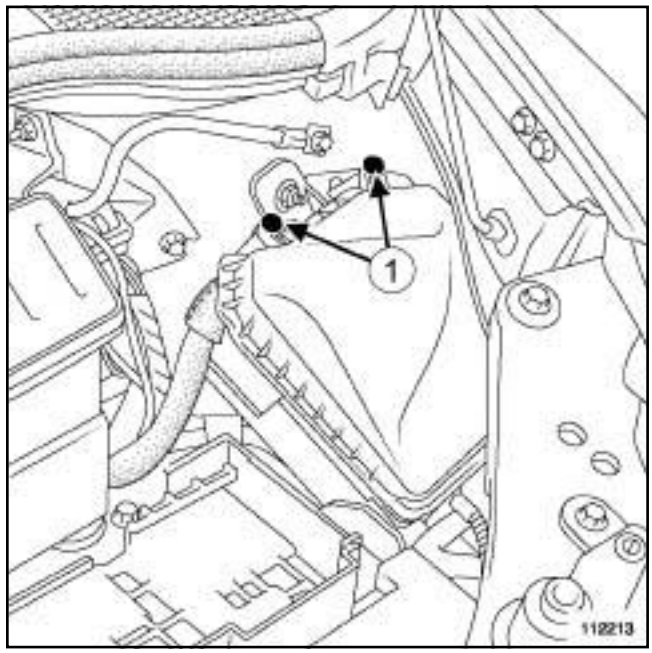
I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the engine cover,
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



112213

❑ Remove:

- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover,
- the pre-postheating unit (see **Pre-postheating unit: Removal - Refitting**) (MR 392, 13C, Preheating).

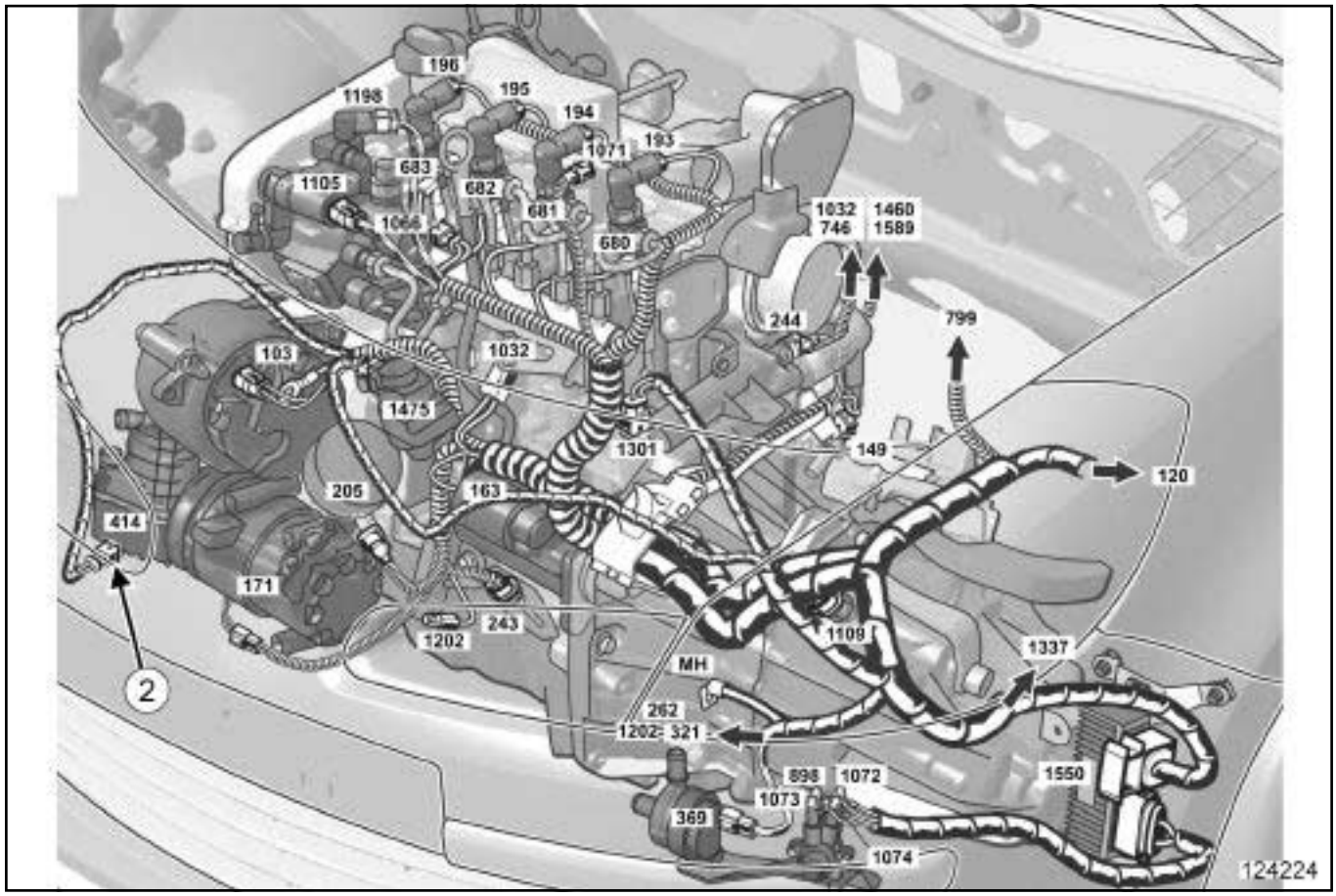
II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

K9K

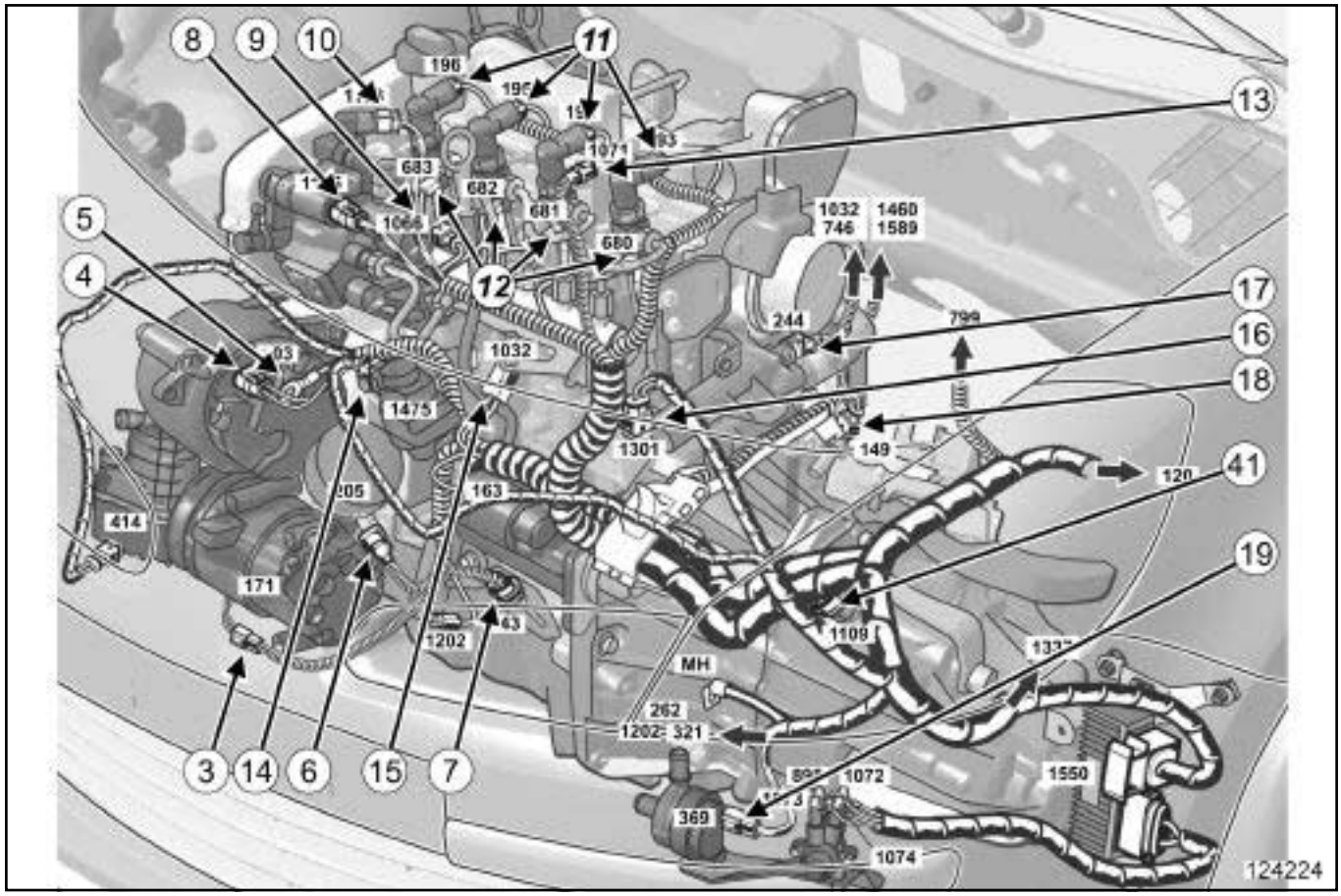
DIESEL SEPARATOR FILTER



124224

❑ Disconnect the water detection sensor connector (**2**) from the diesel filter.

K9K



124224

❑ Disconnect:

- the air conditioning compressor connector (**3**) ,
- the alternator exciter connector (**4**) .

❑ Remove the nut (**5**) from the positive terminal of the starter.

❑ Disconnect:

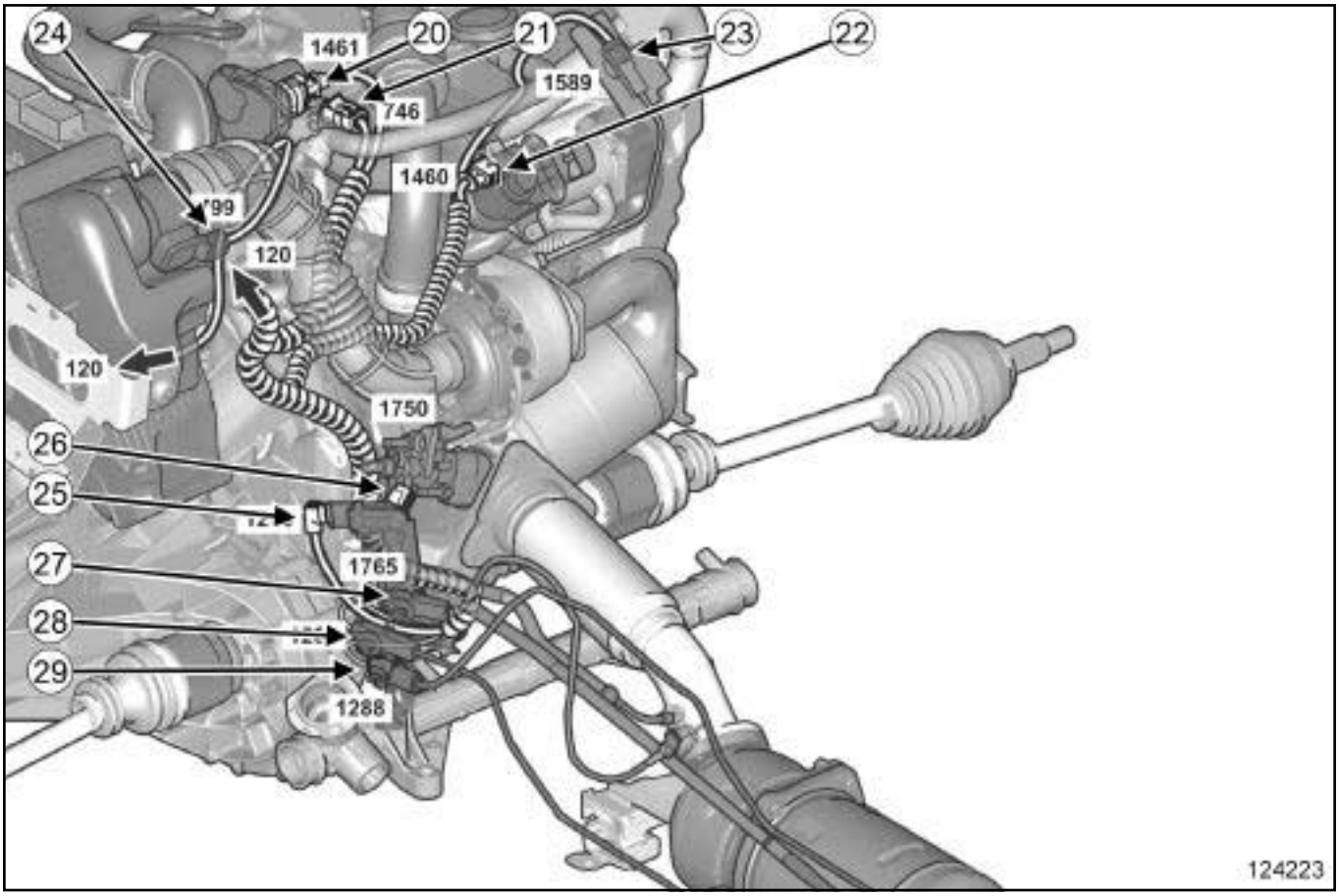
- the connector (**6**) from the oil pressure sensor,
- the oil level sensor connector (**7**) ,
- the fuel flow actuator connector (**8**) ,
- the fuel pressure regulator connector (**9**) ,
- the fuel temperature sensor connector (**10**) ,
- the connector (**11**) from each injector,
- all heater plug connectors (**12**) ,
- the turbocharger pressure sensor connector (**13**) ,
- the turbocharging pressure regulation solenoid valve connector (**14**) ,
- the fuel rail pressure sensor connector (**15**) ,
- the EGR cooler bypass control diaphragm solenoid valve connector (**16**) ,
- the coolant temperature sensor connector (**17**) ,
- the crankshaft position sensor connector (**18**) .

TL4

❑ Disconnect the connector ***(41)*** from the reverse gear switch.

❑ Disconnect the electric coolant pump ***(19)*** connector.

K9K



124223

❑ Disconnect:

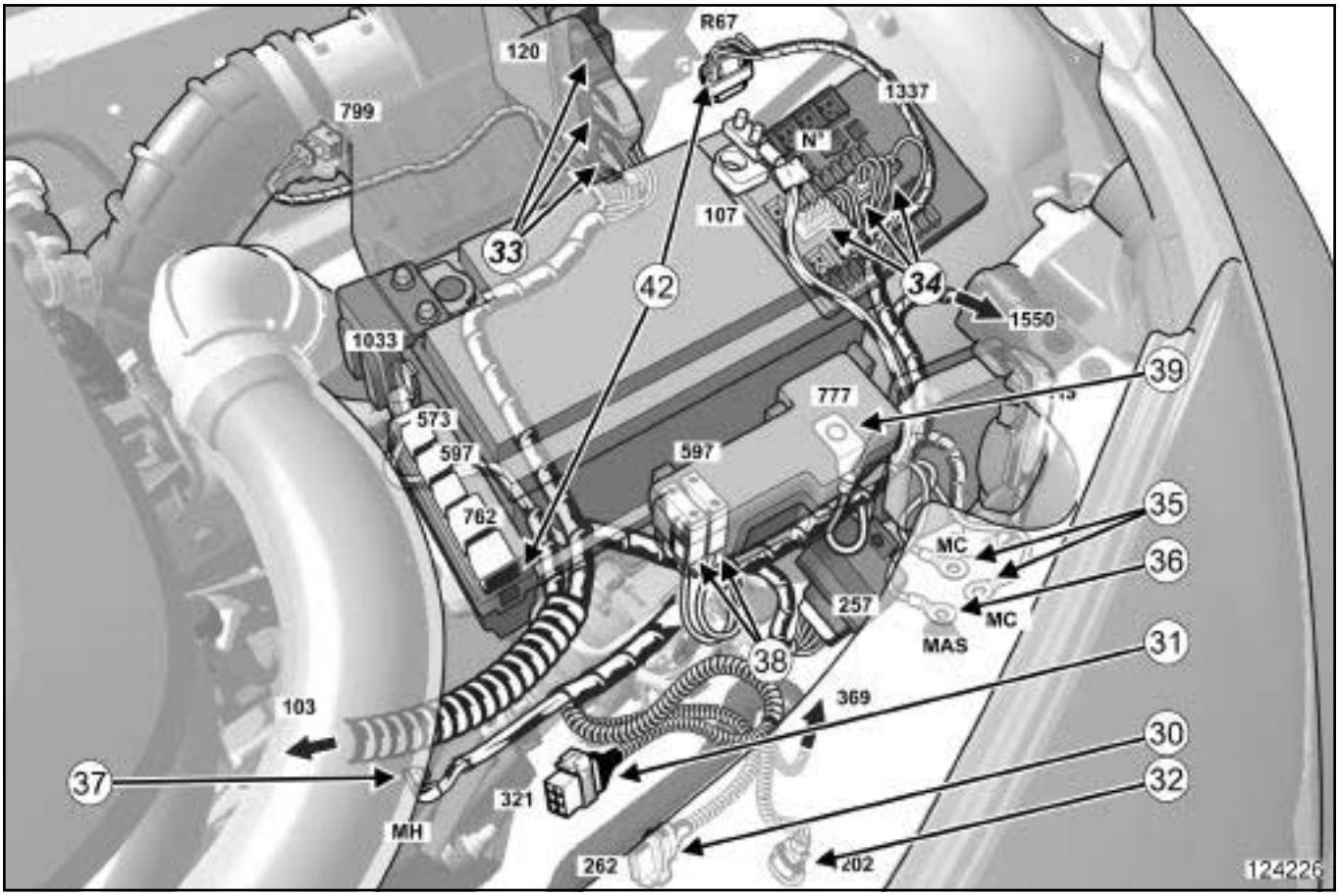
- the damper valve connector (**20**) ,
- the connector (**21**) from the camshaft position sensor,
- the connector (**22**) from the EGR solenoid valve,
- the connector (**23**) from the exhaust gas temperature sensor,
- the air flowmeter connector (**24**) ,

K9K, and 772

❑ Disconnect:

- the particle filter pressure sensor connector (**25**) ,
- the diesel injector connector (**26**) from the catalytic pre-converter,
- the catalytic converter downstream temperature sensor connector (**27**) ,
- the particle filter upstream temperature sensor connector (**28**) ,
- the particle filter downstream temperature sensor connector (**29**) ,

K9K



124226

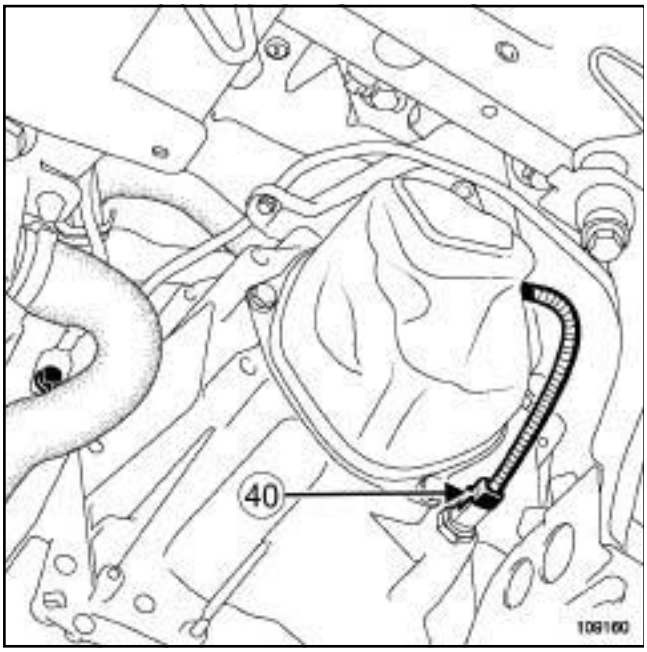
❏ Disconnect:

- the engine cooling fan assembly connector (**30**) ,
- the engine cooling fan assembly resistor connector (**31**) ,
- the refrigerant pressure sensor connector (**32**) ,
- the fuel injection computer connectors (**33**) ,
- the front left-hand wiring connectors (**42**) ,
- the Protection and Switching Unit connectors (**34**) ,

❏ Remove:

- the nut on the excitation terminal of the starter
- the nut on the positive terminal of the starter,
- all earth wiring nuts (**35**) from the gearbox computer,
- the engine cooling fan assembly earth cable nut (**36**) on the front left-hand side member,
- the gearbox earth wiring bolt (**37**) ,
- the 30 A fuse from the power feed fuse board,
- the fuse holders (**38**) ,
- the nut (**39**) from the power feed fuse board cable.

JA5 or JH3 or JR5



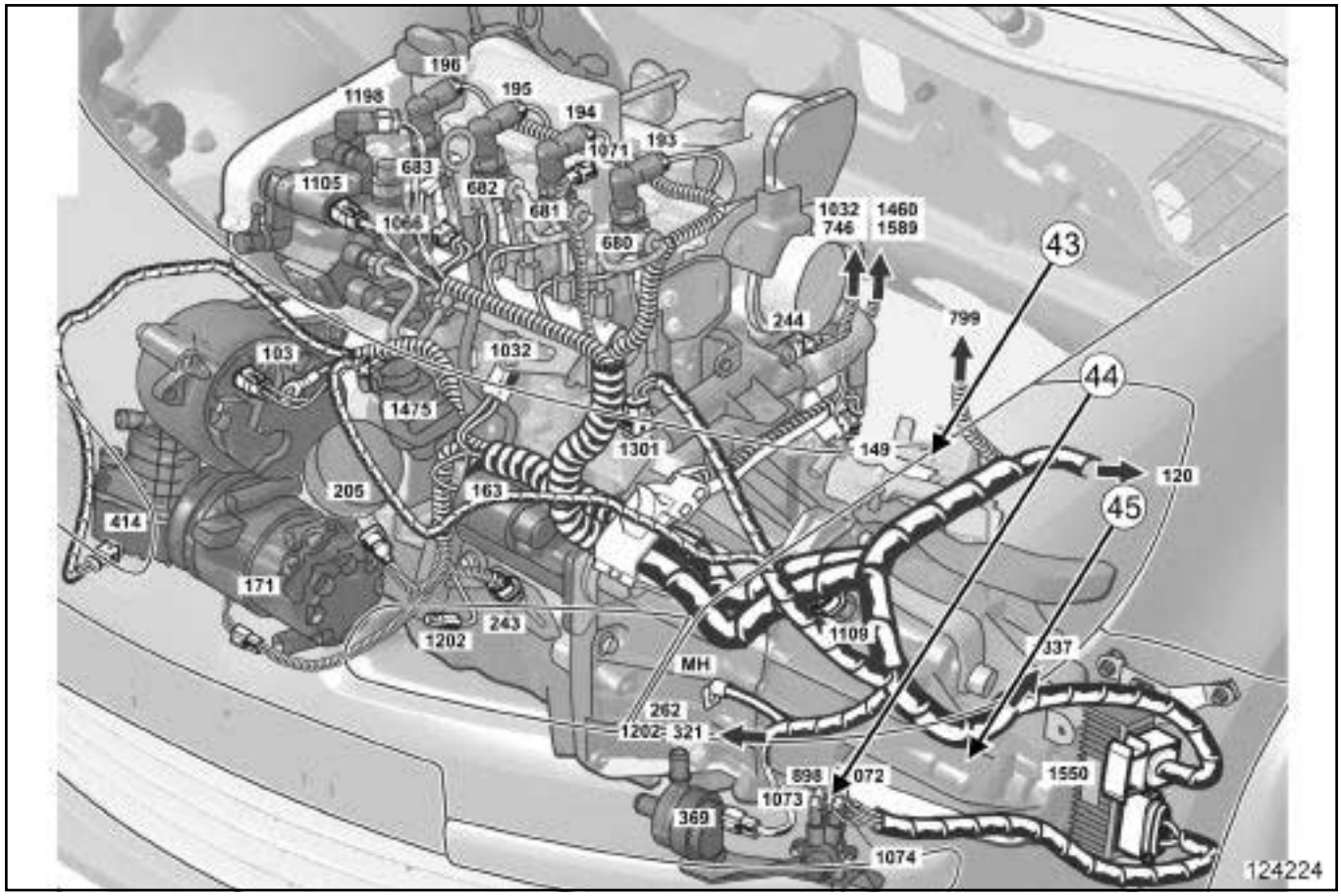
109160

❏ Disconnect the reverse gear switch connector (**40**) .

JA5

❏ Remove the sequential gearbox computer (see **Sequential gearbox converter: Removal - Refitting**) (MR 392, 21B, Sequential gearbox).

K9K



124224

❑ Disconnect the sequential gearbox pump assembly connectors ***(43)*** .

K9K, and 772

❑

Remove:

- the heating element nuts ***(44)*** ,
- the earth wiring ***(45)*** from the heating element unit support on the gearbox.

❑

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❑ Unclip:

- the sub-frame and cylinder block wiring,
- the engine cooling fan assembly wiring,
- the cylinder head wiring.

❑ Remove:

- the engine wiring harness mounting bolt on the clutch housing,
- the engine wiring harness.

REFITTING

I - REFITTING PREPARATION OPERATION

❑ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit:

- the engine wiring,

K9K

- the engine wiring mounting bolt on the clutch housing.

❏ Tighten the engine wiring harness mounting bolt on the clutch housing.

JA5

❏ Refit the sequential gearbox computer (see **Sequential gearbox converter: Removal - Refitting**) (MR 392, 21B, Sequential gearbox).

❏ Connect the sequential gearbox pump assembly connectors.

❏ Refit the sequential gearbox earth wiring nuts on the front left-hand side member.

❏ Torque tighten the **sequential gearbox earth wiring nuts on the front left-hand side member (8 Nm)**.

K9K, and 772

❏ Refit:

- the heating element nuts,
- the earth wiring from the heating element unit support on the gearbox.

❏ Tighten:

- the **heating element nuts (4 Nm)**,
- the **earth wiring bolt from the heating element unit support on the gearbox (21 Nm)**.

❏ Connect:

- the particle filter downstream temperature sensor connector,
- the particle filter upstream temperature sensor connector,
- the catalytic converter downstream temperature sensor connector,
- the diesel injector connector to the catalytic preconverter,
- the particle filter pressure sensor connector.

❏ Refit the nut from the power feed fuse board cable.

❏ Torque tighten the **nut from the power feed fuse board cable (6 Nm)**.

❏ Refit the engine cooling fan assembly earth cable nut on the front left-hand side member.

❏ Torque tighten the **engine cooling fan assembly earth cable nut on the front left-hand side member (8 Nm)**.

❏ Refit:

- the fuse holders,
- the 30 A fuses from the power feed fuse board.

❏ Refit the earth wiring bolt on the gearbox.

❏ Tighten the **earth wiring bolt on the gearbox (24 Nm)**.

❏ Refit:

- the nut on the positive terminal of the starter,
- the nut on the excitation terminal of the starter.

❏ Tighten:

- the **nut on the positive terminal of the starter (8 Nm)**,
- the **nut on the positive terminal of the starter (5 Nm)**.

❏ Connect:

- the Protection and Switching Unit connectors,
- the front left-hand wiring connectors,
- the diesel injection computer connectors,
- the refrigerant pressure sensor connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector,
- the air flowmeter connector,
- the exhaust gas temperature sensor connector,
- the exhaust gas recirculation solenoid valve connector,
- the camshaft position sensor connector,
- the damper valve connector,
- the electric coolant pump connector,
- the reverse gear switch connector,
- the crankshaft position sensor connector,
- the coolant temperature sensor connector,
- the EGR cooler bypass control diaphragm solenoid valve connector,
- the fuel rail pressure sensor connector,
- the turbocharging pressure regulation solenoid valve connector,
- the turbocharger pressure sensor connector,
- all heater plug connectors,

K9K

- all injector connectors,
- the fuel temperature sensor connector,
- the fuel pressure regulator connector,
- the fuel flow actuator connector,
- the oil level sensor connector,
- the oil pressure sensor connector.

❏ Refit the alternator positive terminal nut.

❏ Torque tighten the **alternator positive terminal nut (24 Nm)**.

❏ Connect:

- the alternator exciter connector,
- the air conditioning compressor connector.

DIESEL SEPARATOR FILTER

❏ Connect the water detection sensor connector on the diesel filter.

❏ Clip:

- the wiring on the sub-frame and the cylinder block,
- the wiring on the engine cooling fan assembly,
- the wiring on the cylinder head.

FINAL OPERATION.

❏ Refit:

- the pre-postheating unit (see **Pre-postheating unit: Removal - Refitting**) (MR 392, 13C, Preheating),
- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❏ Tighten the bolts on the Protection and Switching Unit cover.

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the engine cover.

D4F, and 740 or 764

Tightening torques ▽	
nut for the positive terminal of the alternator	**21 Nm**
fuel injection computer earth wiring nut	**8 Nm**
nut from the power feed fuse board cable	**6 Nm**
earth wiring bolt on the gearbox	**24 Nm**
nut on the positive terminal of the starter	**8 Nm**
nut on the excitation terminal of the starter	**5 Nm**
engine cooling fan assembly earth cable nut on the front left-hand side member	**8 Nm**
earth wiring nuts on the gearbox computer	**8 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

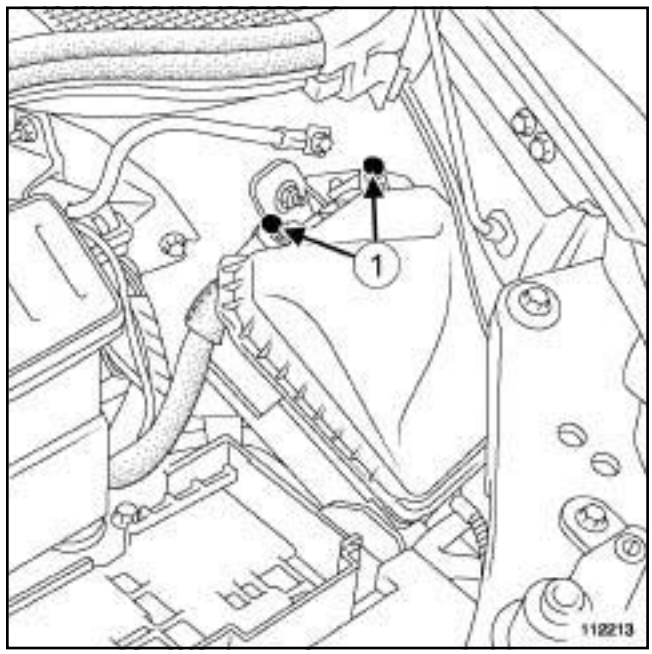
I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the engine cover,
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



112213

❑ Remove:

- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

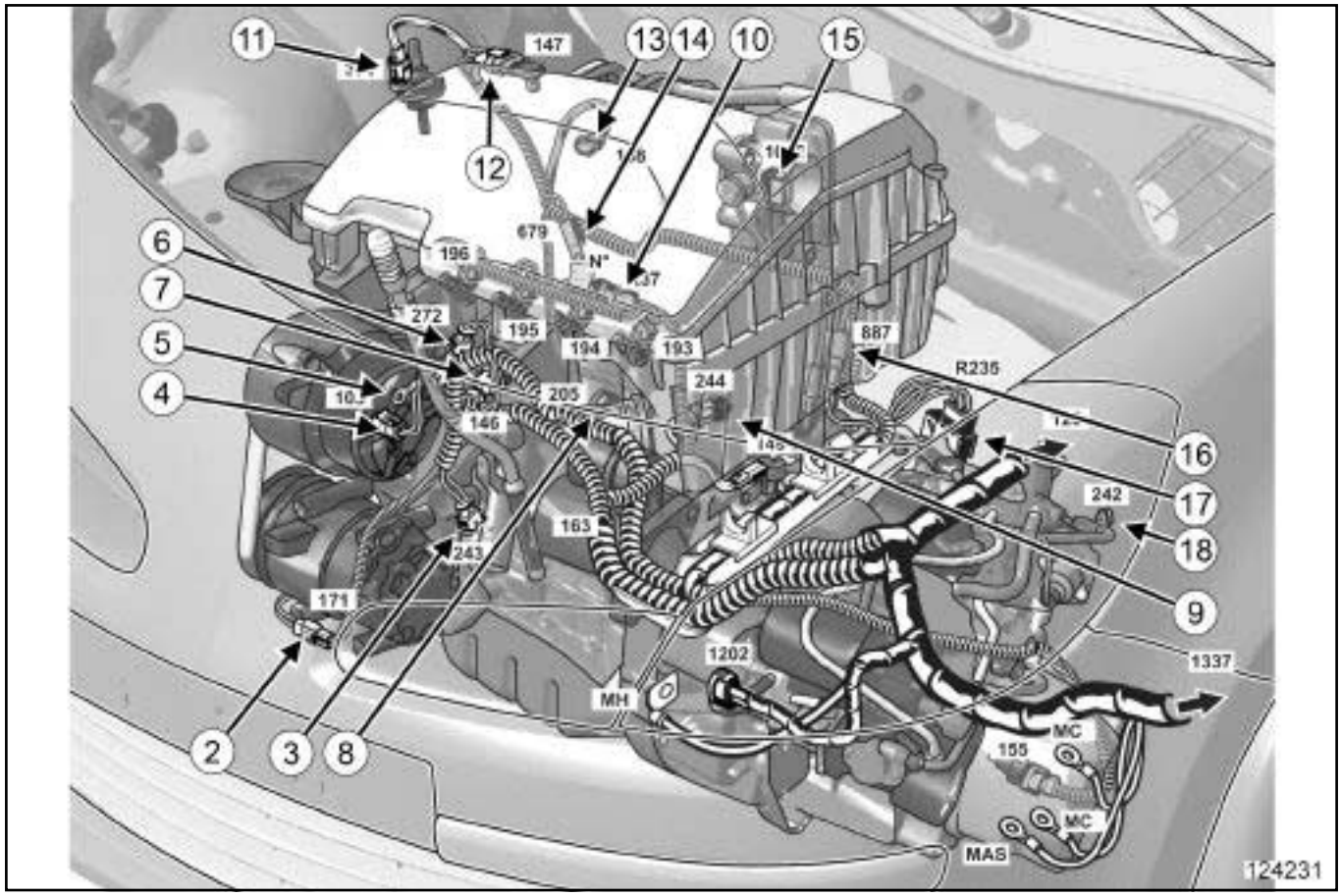
II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

D4F, and 740 or 764



124231

❑ Disconnect:

- the air conditioning compressor connector (**2**) ,
- the oil level sensor connector (**3**) ,
- the alternator exciter connector (**4**) .

❑ Remove the nut (**5**) from the alternator positive terminal.

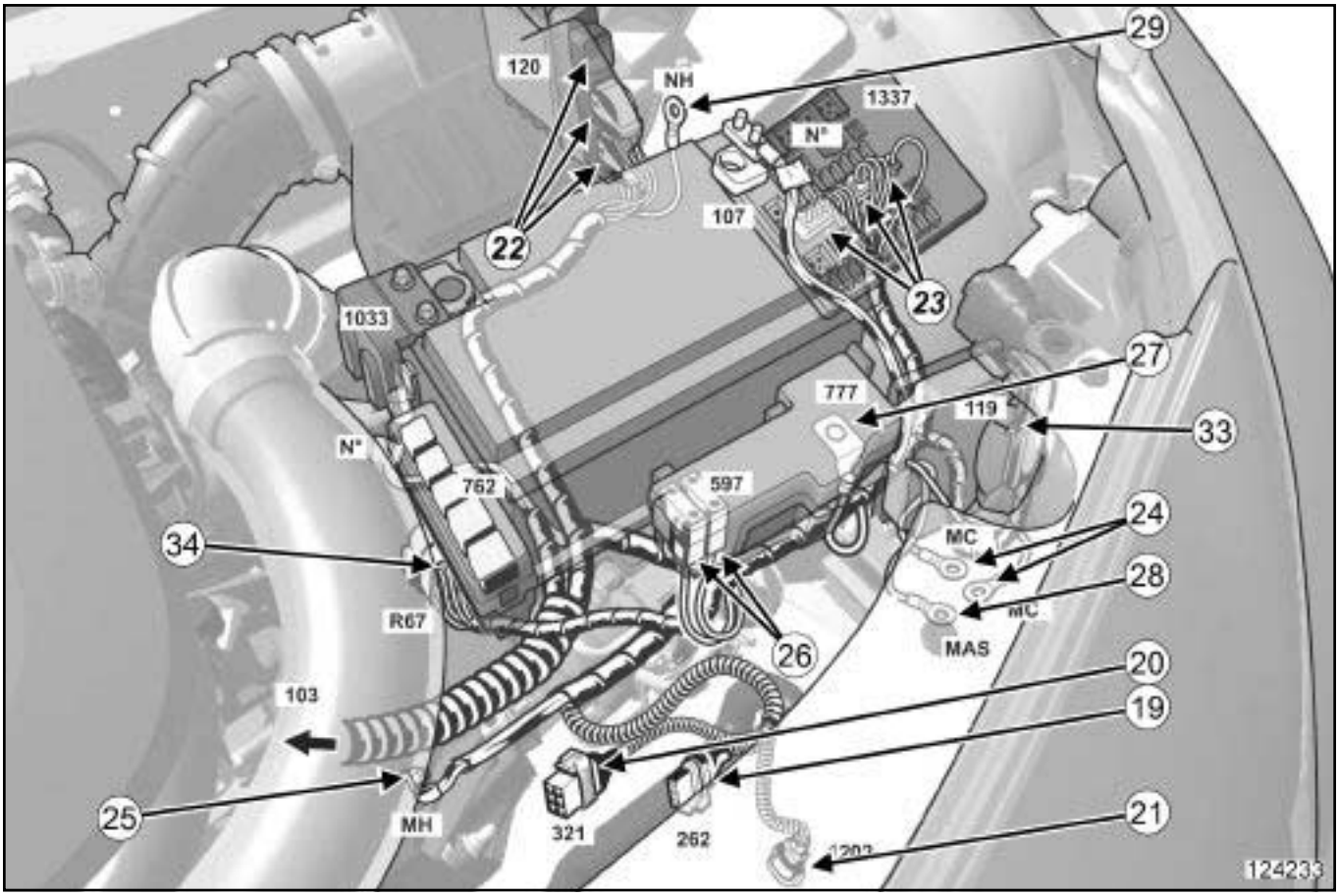
❑ Disconnect:

- the connector (**6**) from the air temperature sensor,
- the pinking sensor connector (**7**) ,
- the connector (**8**) from the oil pressure sensor,
- the coolant temperature sensor connector (**9**) ,
- the engine wiring/injection wiring connection (**10**) ,
- the fuel vapour absorber solenoid valve connector (**11**) ,
- the inlet air pressure sensor connector (**12**) ,
- the coil connector (**13**) ,
- the coil interference suppressor connector (**14**) ,
- the throttle valve connector (**15**) ,
- the upstream oxygen sensor connector (**16**) ,
- the downstream oxygen sensor connector (**18**) .

JA3

❑ Disconnect the passenger compartment wiring harness/sequential gearbox wiring connection (**17**) .

D4F, and 740 or 764



124233

❑ Disconnect:

- the engine cooling fan assembly connector (**19**) ,
- the engine cooling fan assembly resistor connector (**20**) ,
- the refrigerant pressure sensor connector (**21**) ,
- the fuel injection computer connectors (**22**) ,
- the Protection and Switching Unit connectors (**23**) ,
- the front left-hand wiring connector (**34**) .

❑ Remove:

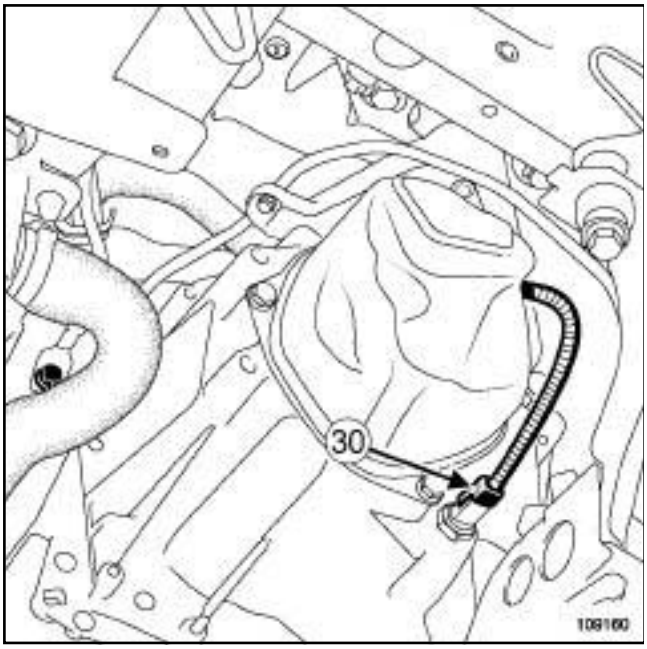
- the nut on the excitation terminal of the starter,
- the nut on the positive terminal of the starter,
- the gearbox earth wiring bolt (**25**) ,
- the 30 A fuses from the power feed fuse board,
- the fuse holders (**26**) ,
- the nut (**27**) from the power feed fuse board cable,
- the engine cooling fan assembly earth wiring nut (**28**) on the front left-hand side member,
- the fuel injection computer earth wiring nut (**29**) .

JA3

❑ Remove the earth wiring nuts (**24**) from the gearbox computer.

❑ Disconnect the computer connector ***(33)*** from the sequential gearbox.

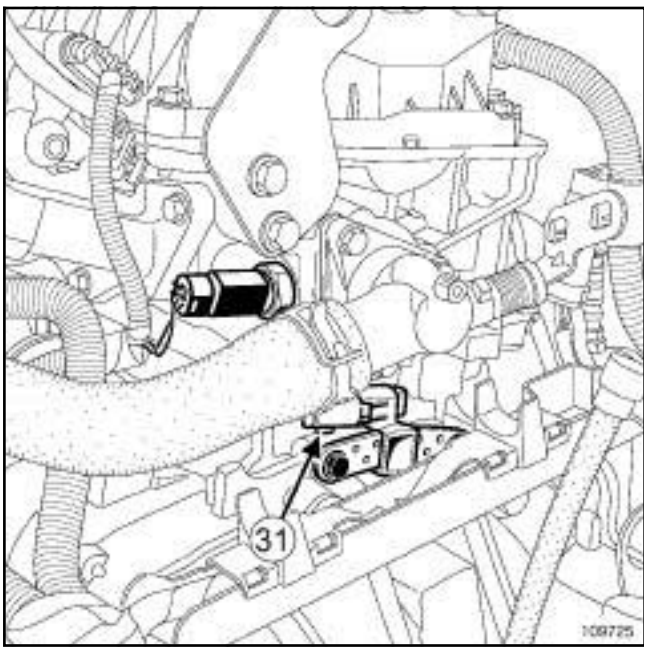
D4F, and 740 or 764



109160

❏ Disconnect the connector (**30**) from the reverse gear switch.

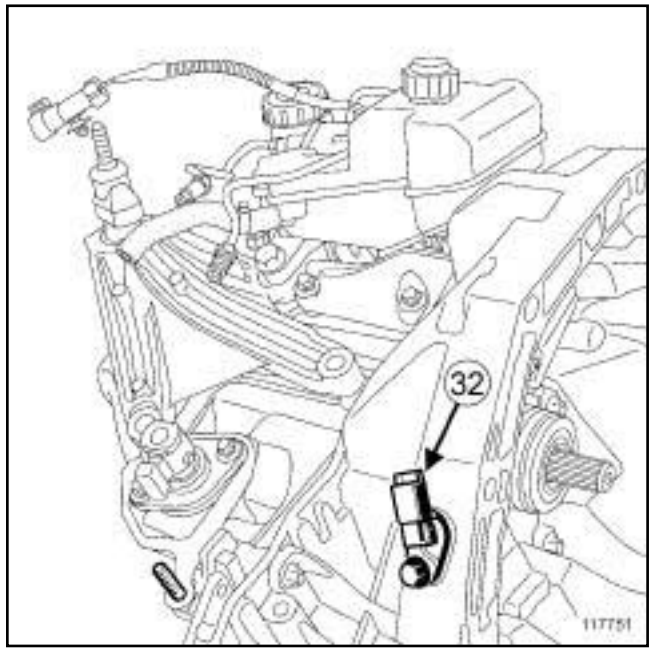
JH3



109725

❏ Disconnect the crankshaft position sensor connector (**31**) .

JA3



117751

❏ Disconnect the crankshaft position sensor connector (**32**) .

❏

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❏ Unclip:

- the cylinder head wiring,
- the engine cooling fan assembly wiring,
- the sub-frame and cylinder block wiring.

❏ Remove:

- the engine wiring harness mounting bolt on the clutch housing,
- the engine wiring harness.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

D4F, and 740 or 764

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the engine wiring,
- the engine wiring harness mounting bolt on the clutch housing.

❏ Tighten the engine wiring harness mounting bolt on the clutch housing.

❏ Connect:

- the crankshaft position sensor connector,
- the reverse gear switch connector,
- the front left-hand wiring connector,
- the Protection and Switching Unit connectors,
- the fuel injection computer connectors,
- the refrigerant pressure sensor connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector,
- the downstream oxygen sensor connector,
- the upstream oxygen sensor connector,
- the throttle valve connector,
- the coil interference suppressor connector,
- the coil connector,
- the air inlet pressure sensor connector,
- the fuel vapour absorber solenoid valve connector,
- the engine wiring harness/injection connection,
- the coolant temperature sensor connector,
- the oil pressure sensor connector,
- the pinking sensor connector,
- the air temperature sensor connector.

JA3

❏ Connect:

- the passenger compartment wiring harness/sequential gearbox wiring connection,
- the sequential gearbox computer connector.

❏ Refit the alternator positive terminal nut.

❏ Torque tighten the **nut for the positive terminal of the alternator (21 Nm)**.

❏ Connect:

- the alternator exciter connector,
- the oil level sensor connector,
- the air conditioning compressor connector.

❏ Refit the fuel injection computer earth cable nut.

❏ Torque tighten the **fuel injection computer earth wiring nut (8 Nm)**.

❏ Refit the nut from the power feed fuse board cable.

❏ Torque tighten the **nut from the power feed fuse board cable (6 Nm)**.

❏ Refit:

- the fuse holders,
- the 30 A fuses from the power feed fuse board,

❏ Refit the earth wiring bolt on the gearbox.

❏ Torque tighten the **earth wiring bolt on the gearbox (24 Nm)**.

❏ Refit:

- the nut on the positive terminal of the starter,
- the nut on the excitation terminal of the starter.

❏ Tighten to torque:

- the **nut on the positive terminal of the starter (8 Nm)**,
- the **nut on the excitation terminal of the starter (5 Nm)**.

❏ Refit the engine cooling fan assembly earth wiring nut on the front left-hand side member.

❏ Torque tighten the **engine cooling fan assembly earth cable nut on the front left-hand side member (8 Nm)**.

JA3

❏ Refit the earth wiring nuts on the gearbox computer.

❏ Torque tighten the **earth wiring nuts on the gearbox computer (8 Nm)**.

❏ Clip:

- the wiring on the sub-frame and the cylinder block,
- the wiring on the engine cooling fan assembly,
- the wiring on the cylinder head.

D4F, and 740 or 764

III - FINAL OPERATION.

❑ Refit:

- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❑ Tighten the bolts on the Protection and Switching Unit cover.

❑ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the engine cover.

F4R

Tightening torques ▽	
fuel injection computer earth wiring nut	**8 Nm**
nut from the power feed fuse board cable	**6 Nm**
engine cooling fan assembly earth cable nut on the front left-hand side member	**8 Nm**
nut on the excitation terminal of the starter	**5 Nm**
nut on the positive terminal of the starter	**8 Nm**
earth wiring bolt on the gearbox	**24 Nm**
nut for the positive terminal of the alternator	**21 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

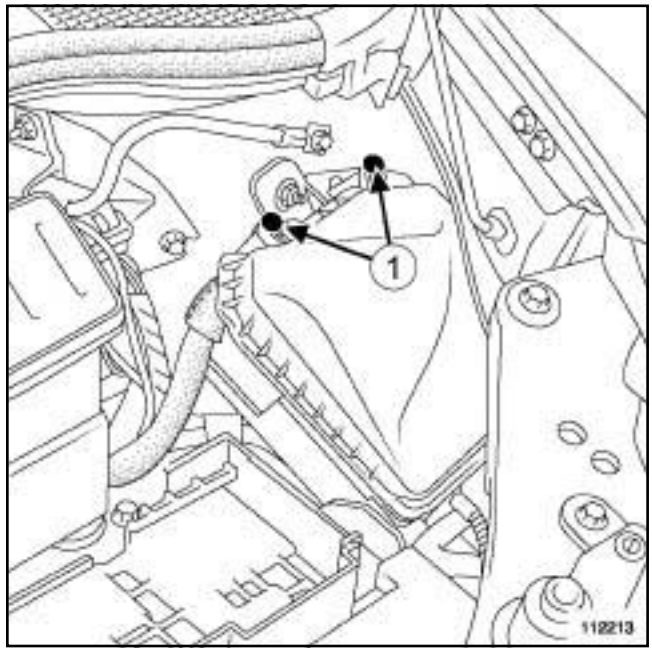
I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the engine cover,
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



112213

❑ Remove:

- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

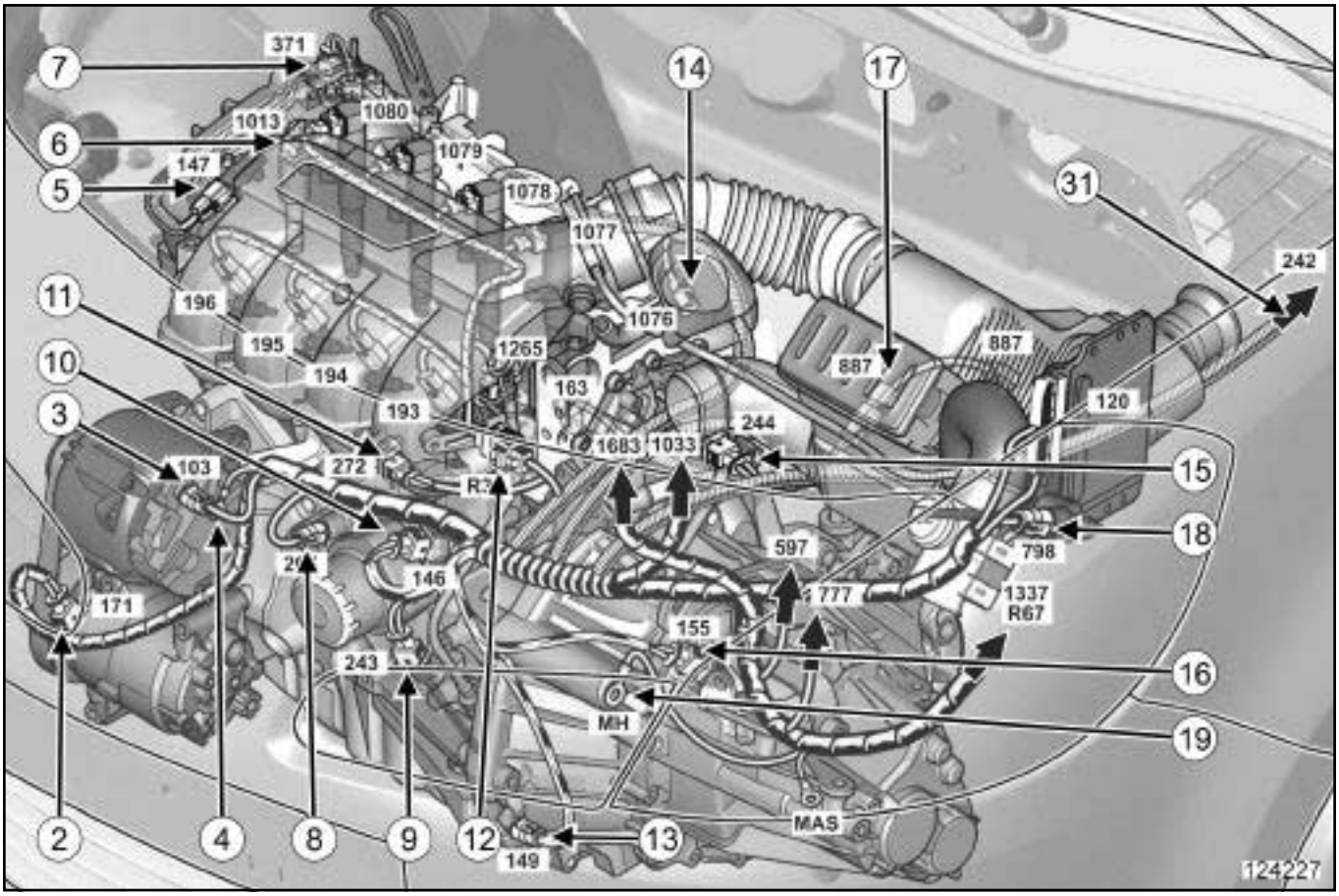
II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

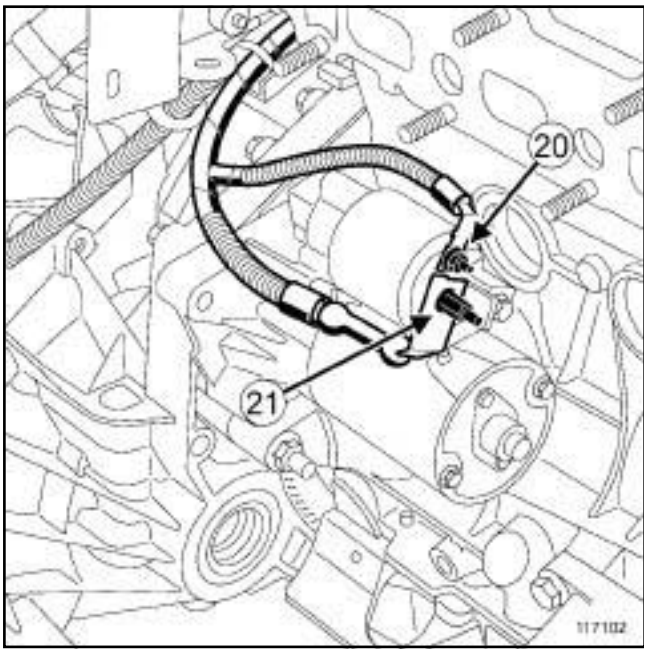
WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

F4R



124227



117102

❑ Disconnect:

- the air conditioning compressor connector (**2**) ,
- the alternator exciter connector (**3**) .

❑ Remove the nut (**4**) from the positive terminal of the starter.

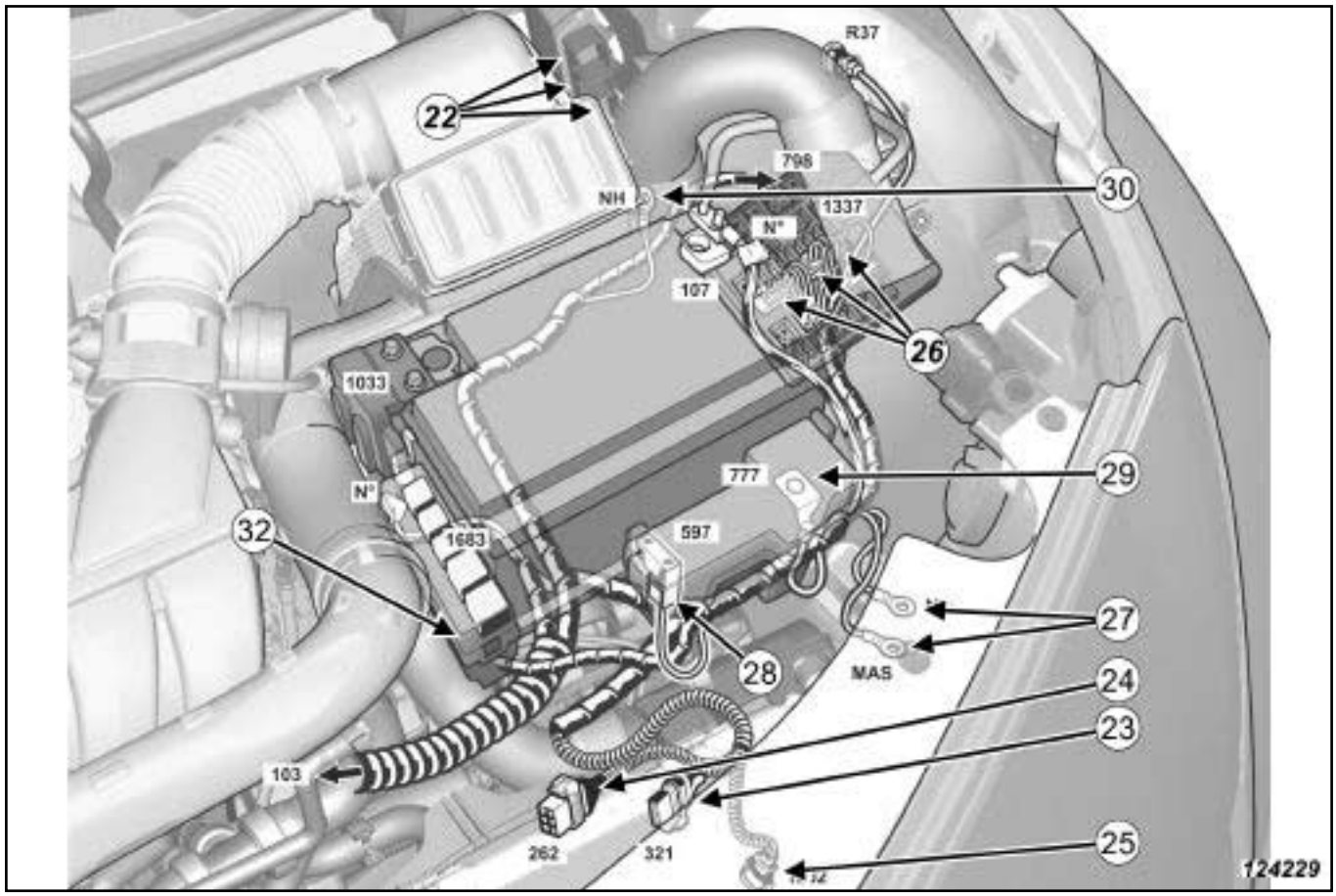
❑ Disconnect:

- the inlet air pressure sensor connector (**5**) ,
- the camshaft dephaser solenoid valve connector (**6**) ,
- the fuel vapour absorber solenoid valve connector (**7**) ,
- the connector (**8**) from the oil pressure sensor,
- the oil level sensor connector (**9**) ,
- the pinking sensor connector (**10**) ,
- the connector (**11**) from the air temperature sensor,
- the engine wiring/injection wiring connection (**12**) ,
- the crankshaft position sensor connector (**13**) ,
- the throttle valve connector (**14**) ,
- the coolant temperature sensor connector (**15**) ,
- the connector (**16**) from the reverse gear switch,
- the upstream oxygen sensor connector (**17**) .
- the dual-mode solenoid valve connector (**18**) ,
- the downstream oxygen sensor connector (**31**) .

F4R

❏ Remove:

- the gearbox earth cable bolt (**19**) ,
- the nut on the excitation terminal of the starter (**20**) ,
- the nut on the positive terminal of the starter (**21**) .



124229

❏ Remove the air resonator (see **Air resonator: Removal - Refitting**) (MR 392, 12A, Fuel mixture).

❏ Disconnect:

- the fuel injection computer connectors (**22**) ,
- the engine cooling fan assembly connector (**23**) ,
- the engine cooling fan assembly resistor connector (**24**) ,
- the refrigerant pressure sensor connector (**25**) ,
- the Protection and Switching Unit connectors (**26**) ,
- the front left-hand wiring connector (**32**) .

❏ Remove:

- the engine cooling fan assembly earth wiring nut (**27**) on the front left-hand side member,
- the 30 A fuse from the power feed fuse board,
- the fuse holder (**28**) ,
- the nut (**29**) from the power feed fuse board cable,
- the fuel injection computer earth wiring nut (**30**) .

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❏ Unclip:

- the sub-frame and cylinder block wiring,
- the engine cooling fan assembly wiring,
- the cylinder head wiring.

❏ Remove the engine wiring.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

F4R

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the engine wiring,
- the fuel injection computer earth wiring nut.

❏ Torque tighten the **fuel injection computer earth wiring nut (8 Nm)**.

❏ Refit the nut from the power feed fuse board cable.

❏ Torque tighten the **nut from the power feed fuse board cable (6 Nm)**.

❏ Refit:

- the fuse holder,
- the 30 A fuse from the power feed fuse board,
- the engine cooling fan assembly earth wiring nut on the front left-hand side member.

❏ Torque tighten the **engine cooling fan assembly earth cable nut on the front left-hand side member (8 Nm)**.

❏ Connect:

- the Protection and Switching Unit connectors,
- the front left-hand wiring connector,
- the refrigerant pressure sensor connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector,
- the petrol injection computer connectors.

❏ Refit:

- the air resonator (see **Air resonator: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the nut on the excitation terminal of the starter,
- the nut on the positive terminal of the starter.

❏ Tighten to torque:

- the **nut on the excitation terminal of the starter (5 Nm)**.
- the **nut on the positive terminal of the starter (8 Nm)**,

❏ Refit the earth wiring bolt on the gearbox.

❏ Torque tighten the **earth wiring bolt on the gearbox (24 Nm)**.

❏ Connect:

- the downstream oxygen sensor connector,
- the dual-mode solenoid valve connector,
- the upstream oxygen sensor connector,
- the reverse gear switch connector,
- the coolant temperature sensor connector,
- the throttle valve connector,
- the crankshaft position sensor connector,
- the engine wiring/injection wiring connection,
- the air temperature sensor connector,
- the pinking sensor connector,
- the oil level sensor connector,
- the oil pressure sensor connector,
- the fuel vapour absorber solenoid valve connector,
- the camshaft dephaser solenoid valve connector,
- the air inlet pressure sensor connector.

❏ Refit the alternator positive terminal nut.

❏ Torque tighten the **nut for the positive terminal of the alternator (21 Nm)**.

❏ Connect:

- the alternator exciter connector,
- the air conditioning compressor connector.

❏ Clip:

- the wiring on the sub-frame and the cylinder block,
- the wiring on the engine cooling fan assembly,
- the wiring on the cylinder head.

III - FINAL OPERATION.

❏ Refit:

- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❏ Tighten the bolts on the Protection and Switching Unit cover.

❏ Refit:

- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),

F4R

- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the engine cover.

M4R

Tightening torques ▽	
fuel injection computer earth cable nut	**8 Nm**
nut from the power feed fuse board cable	**6 Nm**
earth wiring bolt on the manual gearbox	**24 Nm**
earth wiring bolt on the automatic transmission	**44 Nm**
engine cooling fan assembly earth cable nut on the front left-hand side member	**8 Nm**
automatic transmission earth cable nut on the front left-hand side member	**8 Nm**
nut on the positive terminal of the starter	**9 Nm**
nut on the excitation terminal of the starter	**5 Nm**
nut for the positive terminal of the alternator	**21 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

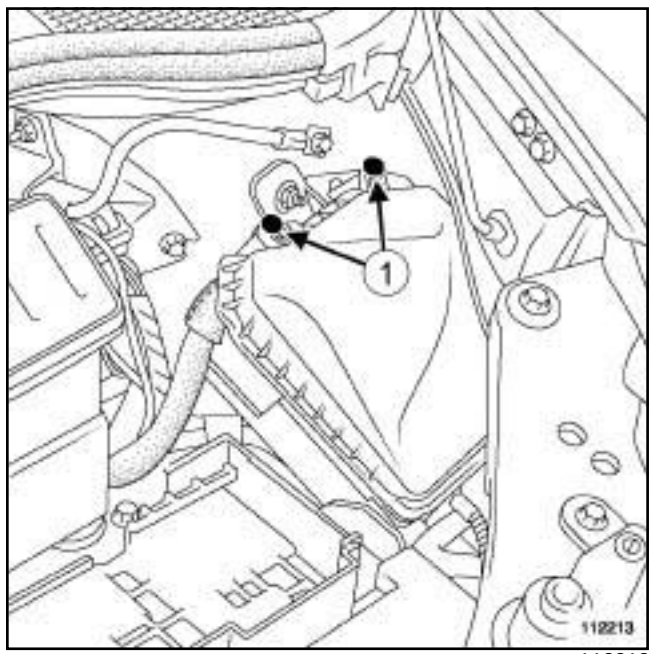
I - REMOVAL PREPARATION OPERATION

❑ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❑ Switch off the ignition.

❑ Remove:

- the engine cover,
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



112213

❑ Remove:

- the bolts (**1**) from the Protection and Switching Unit cover,
- the Protection and Switching Unit cover.

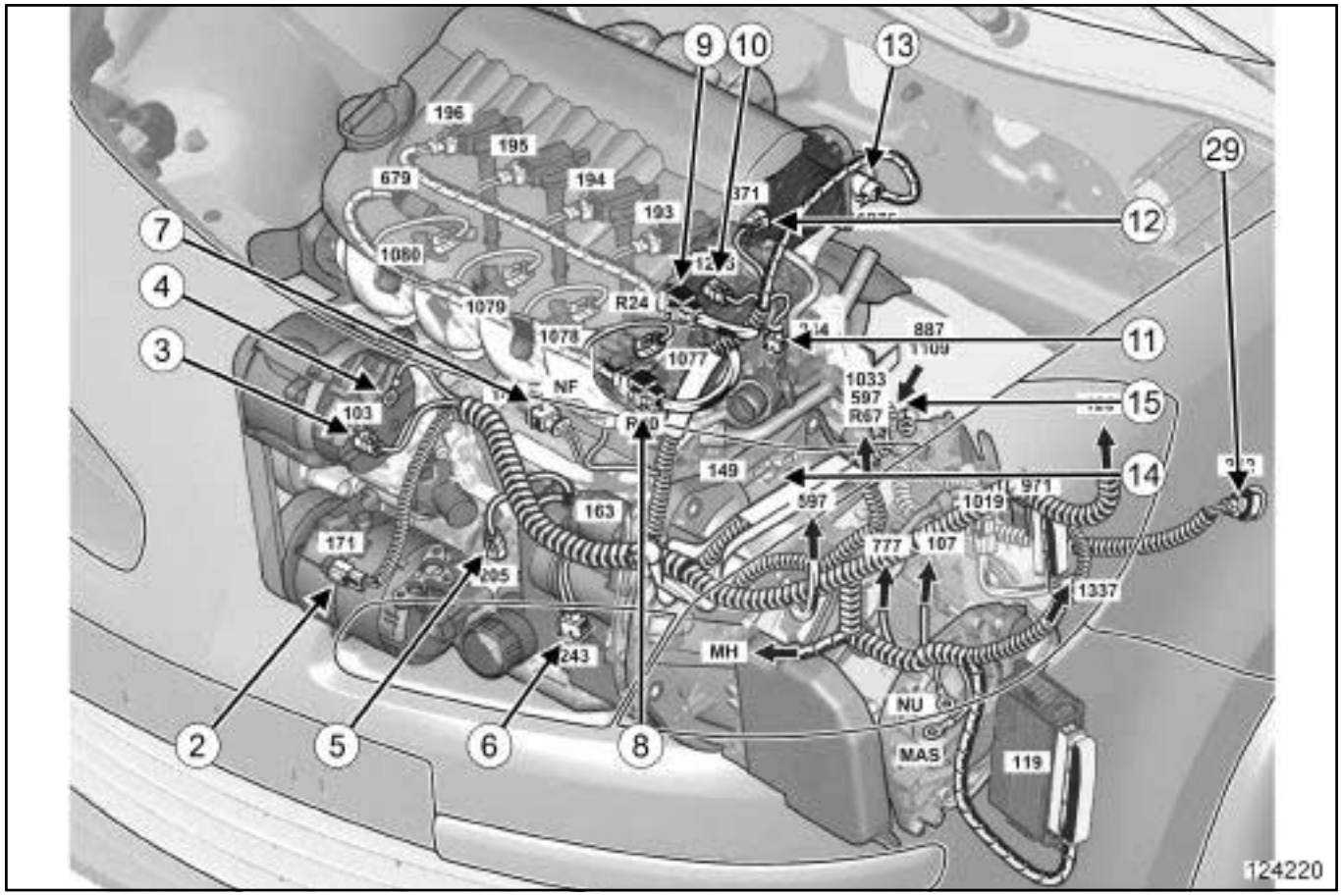
II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

M4R



124220

❑ Disconnect:

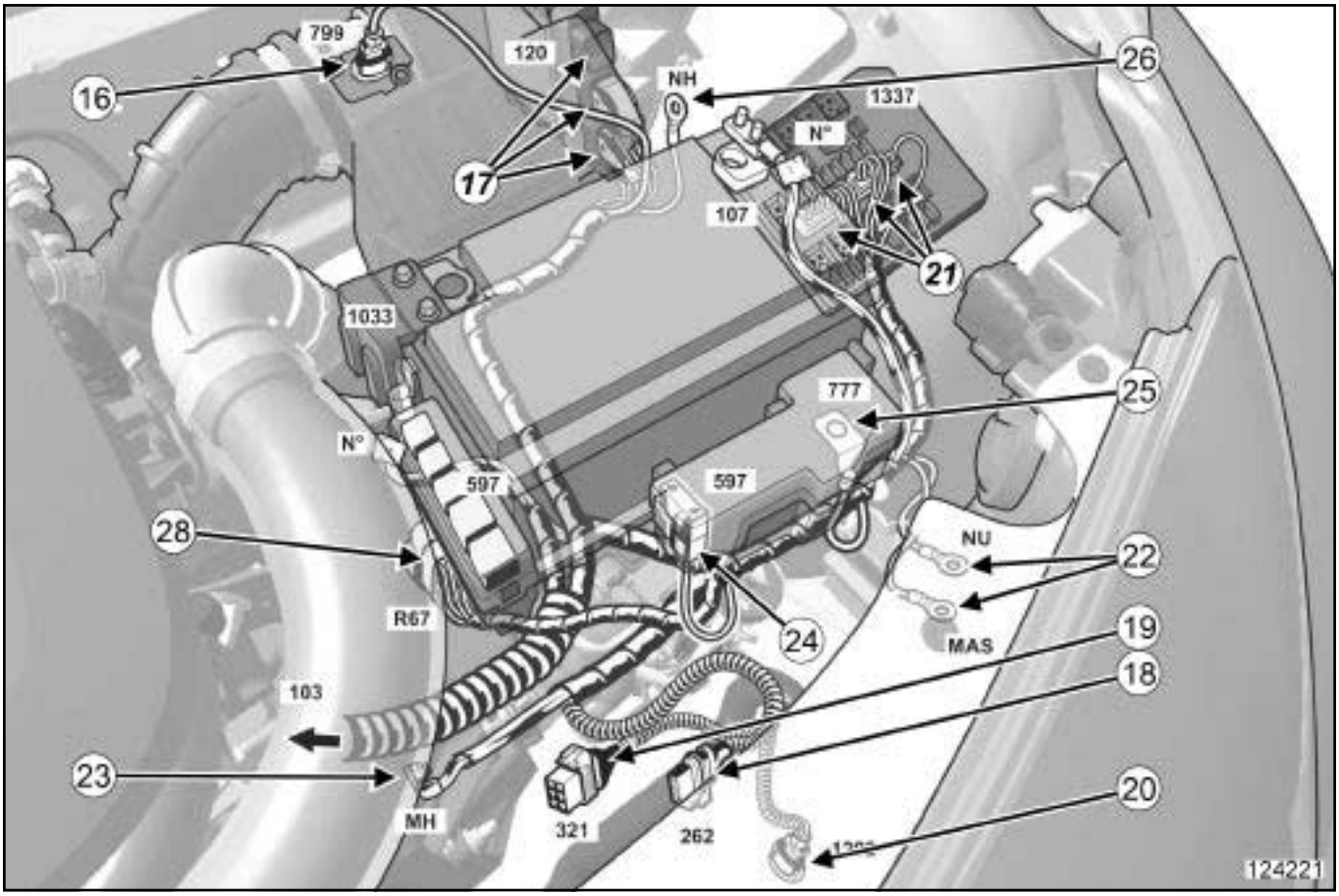
- the air conditioning compressor connector (**2**) ,
- The alternator exciter connector (**3**) .

❑ Remove the nut (**4**) from the alternator positive terminal.

❑ Disconnect:

- the connector (**5**) from the oil pressure sensor,
- the oil level sensor connector (**6**) ,
- the pinking sensor connector (**7**) ,
- the engine wiring/ignition wiring connection (**9**) ,
- the engine wiring/injection wiring connection (**8**) ,
- the connector (**10**) from the camshaft position sensor,
- the coolant temperature sensor connector (**11**) ,
- the fuel vapour absorber solenoid valve connector (**12**) ,
- the throttle valve connector (**13**) ,
- the crankshaft position sensor connector (**14**) ,
- the upstream oxygen sensor connector (**15**) ,
- the downstream oxygen sensor connector (**29**) .

M4R



124221

❑ Disconnect:

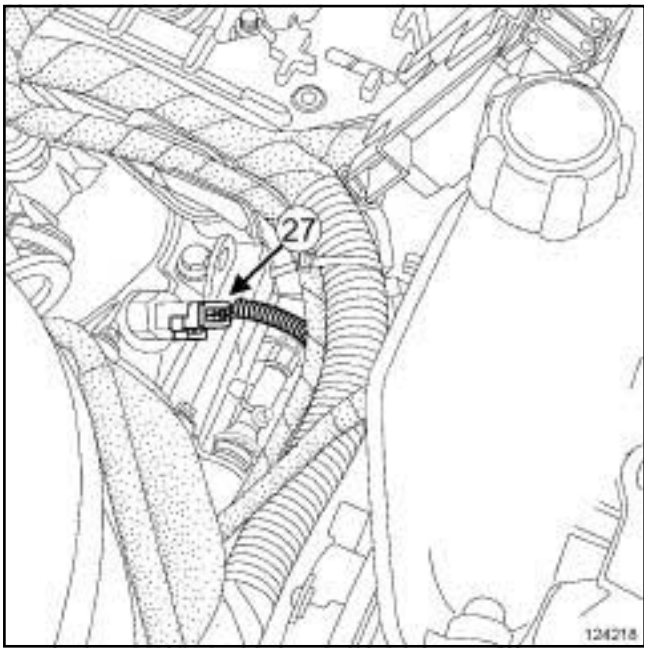
- the air flowmeter connector (**16**) ,
- the fuel injection computer connector (**17**) ,
- the engine cooling fan assembly connector (**18**) ,
- the engine cooling fan assembly resistor connector (**19**) ,
- the front left-hand wiring connector (**28**) ,
- the refrigerant pressure sensor connector (**20**) ,
- the Protection and Switching Unit connectors (**21**) ,

❑ Remove:

- the nut on the excitation terminal of the starter,
- the nut on the positive terminal of the starter,
- all earth cable nuts (**22**) on the front left-hand side member,
- the gearbox earth wiring bolt (**23**) ,
- the 30 A fuse from the power feed fuse board,
- the fuse holder (**24**) ,
- the nut (**25**) from the power feed fuse board cable,
- the fuel injection computer earth cable nut (**26**) .

M4R

TL4

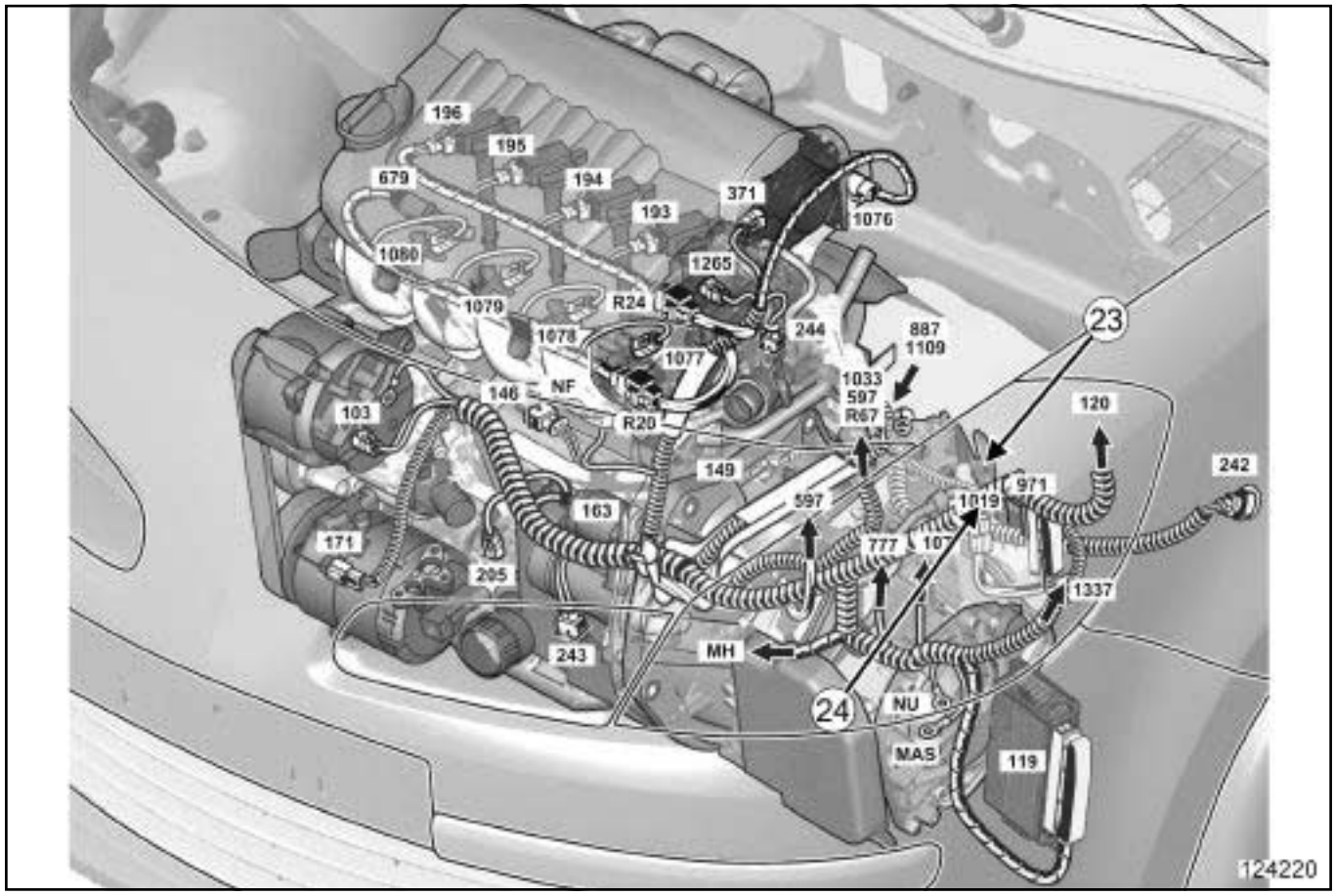


124218

❑ Disconnect the reverse gear switch connector (**27**) .

M4R

DP0



124220

❑ Remove:

- the automatic transmission computer (see **Automatic gearbox converter: Removal - Refitting**) (MR 392, 23A, Automatic transmission),

- the gearbox suspended engine mounting (see **Left-hand suspended engine mounting: Removal - Refitting**) .

❑ Disconnect:

- the automatic transmission module connector (**23**) ,

- the flow control solenoid valve connector (**24**) .

WARNING
Protect the connector by sliding it into a waterproof plastic bag.

❑

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❑ Unclip:

- the sub-frame and cylinder block wiring,

- the engine cooling fan assembly wiring,

- the cylinder head wiring.

❑ Remove:

- the engine wiring harness mounting bolt on the clutch housing,

- the engine wiring harness.

M4R

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit:

- the engine wiring,
- the engine wiring harness mounting bolt on the clutch housing,

❏ Tighten the engine wiring harness mounting bolt on the clutch housing,

DP0

❏ Connect:

- the automatic transmission module connector,
- the flow control solenoid valve connector.

❏ Refit:

- the gearbox suspended engine mounting (see **Left-hand suspended engine mounting: Removal - Refitting**) (MR 392, 19D, Engine mounting),
- the automatic transmission computer (see **Automatic gearbox converter: Removal - Refitting**) (MR 392, 23A, Automatic transmission),

TL4

❏ Connect the reverse gear switch connector.

❏ Refit the fuel injection computer earth cable nut.

❏ Torque tighten the **fuel injection computer earth cable nut (8 Nm)**.

❏ Refit the nut from the power feed fuse board cable.

❏ Torque tighten the **nut from the power feed fuse board cable (6 Nm)**.

❏ Refit:

- the fuse holder,
- the 30 A fuse from the power feed fuse board.

TL4

❏ Refit the earth wiring bolt on the manual gearbox.

❏ Torque tighten the **earth wiring bolt on the manual gearbox (24 Nm)**.

DP0

❏ Refit the earth wiring bolt on the automatic transmission.

❏ Torque tighten the **earth wiring bolt on the automatic transmission (44 Nm)**.

❏ Refit the engine cooling fan assembly earth cable nut on the front left-hand side member.

❏ Torque tighten the **engine cooling fan assembly earth cable nut on the front left-hand side member (8 Nm)**.

❏ Refit the automatic transmission earth cable nut on the front left-hand side member.

❏ Torque tighten the **automatic transmission earth cable nut on the front left-hand side member (8 Nm)**.

❏ Refit:

- the nut on the positive terminal of the starter,
- the nut on the excitation terminal of the starter.

❏ Tighten to torque:

- the **nut on the positive terminal of the starter (9 Nm)**,
- the **nut on the excitation terminal of the starter (5 Nm)**.

❏ Connect:

- the Protection and Switching Unit connectors,
- the refrigerant pressure sensor connector,
- the front left-hand wiring connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector,
- the fuel injection computer connectors,
- the air flowmeter connector,
- the downstream oxygen sensor connector,

- the upstream oxygen sensor connector,
- the crankshaft position sensor connector,
- the throttle valve connector,
- the fuel vapour absorber solenoid valve connector,
- the coolant temperature sensor connector,
- the camshaft position sensor connector,
- the engine wiring harness/injection connection,
- the engine wiring harness/ignition connection,
- the pinking sensor connector,
- the oil level sensor connector,
- the oil pressure sensor connector.

❏ Refit the alternator positive terminal nut.

❏ Torque tighten the **nut for the positive terminal of the alternator (21 Nm)**.

❏ Connect:

- the alternator exciter connector,
- the air conditioning compressor connector,

❏ Clip:

- the wiring on the sub-frame and the cylinder block,
- the wiring on the engine cooling fan assembly,
- the wiring on the cylinder head.

III - FINAL OPERATION.

❏ Refit:

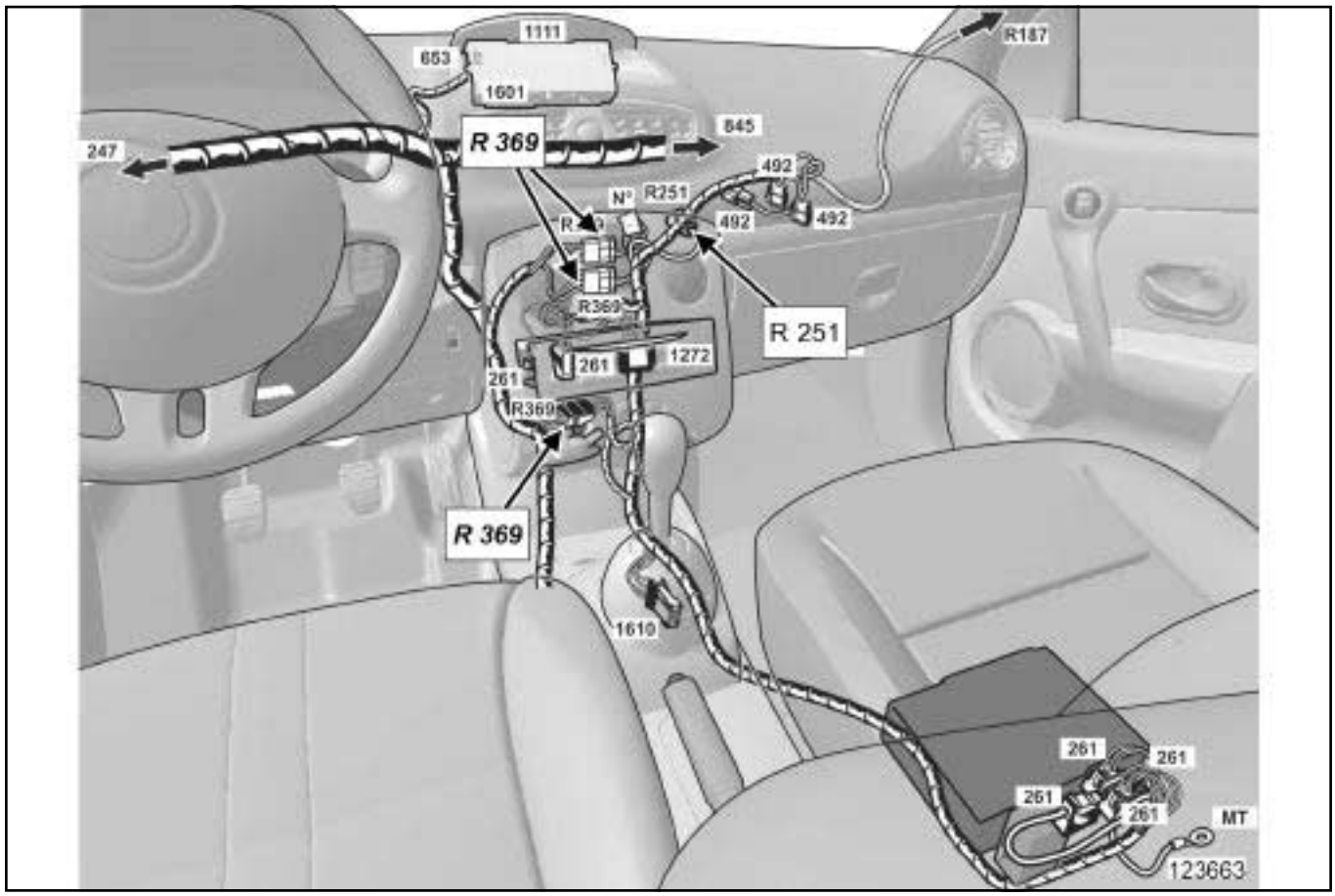
- the Protection and Switching Unit cover,
- the bolts on the Protection and Switching Unit cover.

❏ Tighten the bolts on the Protection and Switching Unit cover.

❏ Refit:

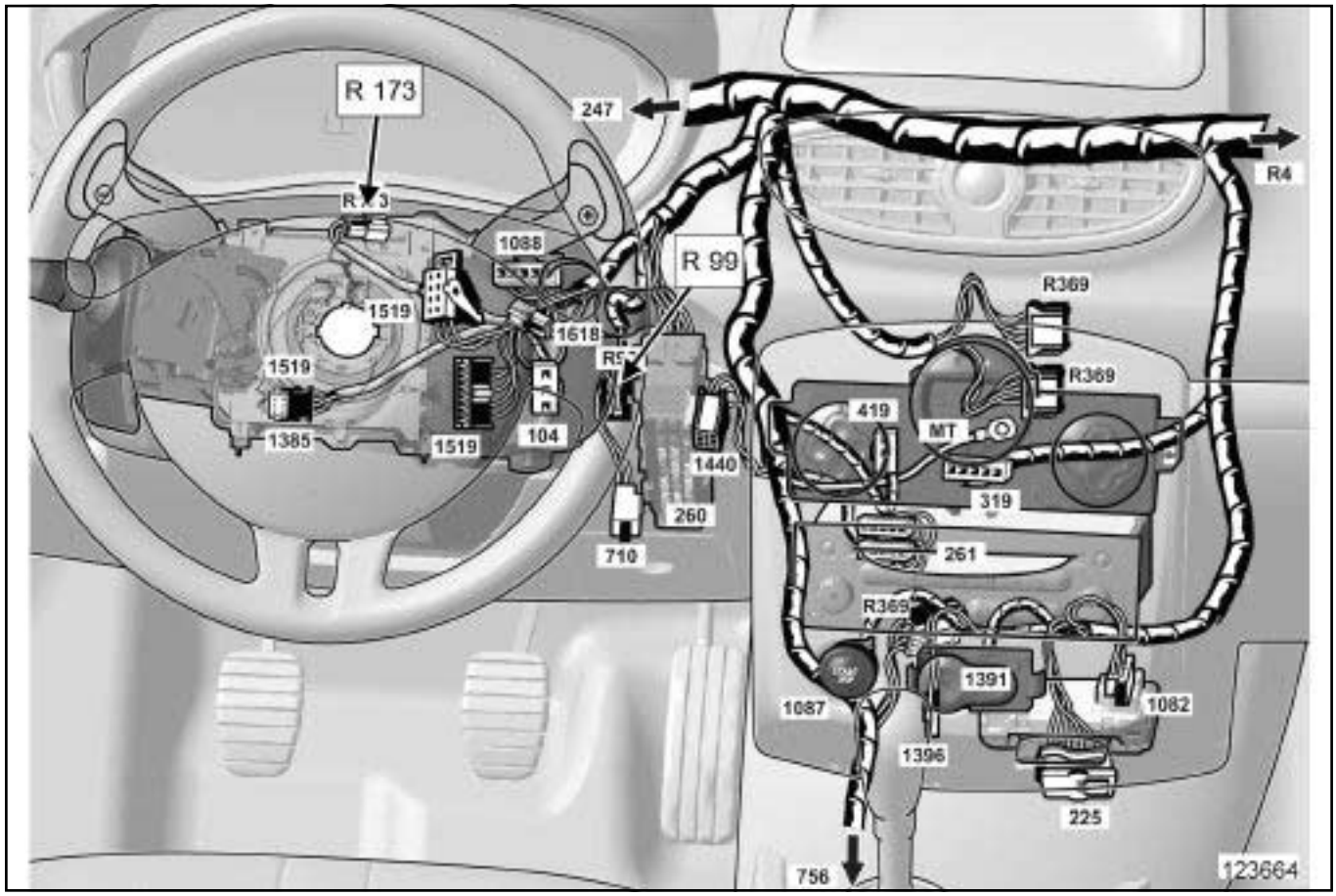
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal - Refitting**, page **80A-5**) ,
- the air filter box (see **Air filter unit: Removal - Refitting**) (MR 392, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) ,
- the engine cover.

I - LOCATION OF CONNECTORS



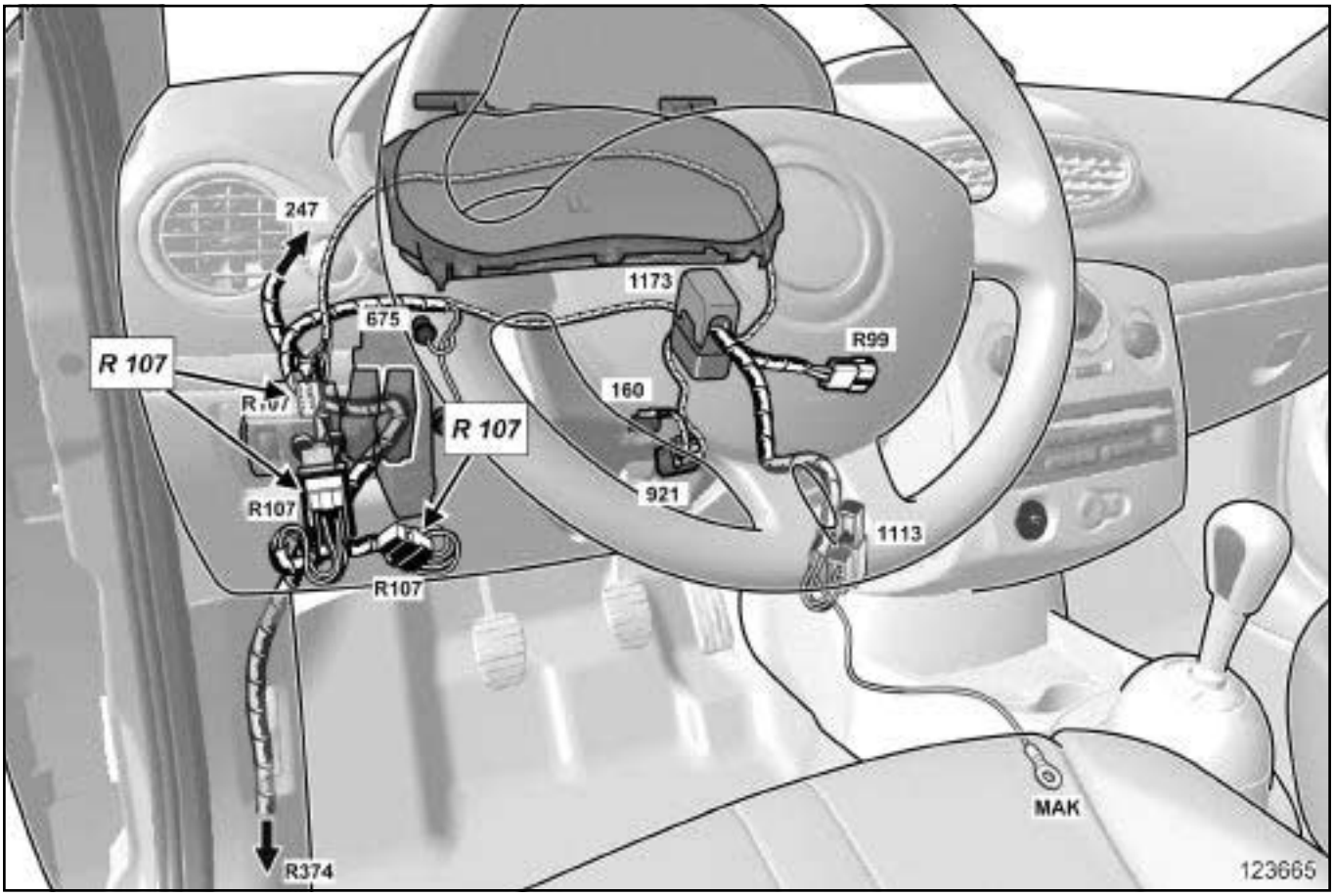
123663

- ❏ R251 connector (dashboard wiring/radio + telephone wiring connection).
- ❏ R369 connector (dashboard wiring//multimedia wiring connection).



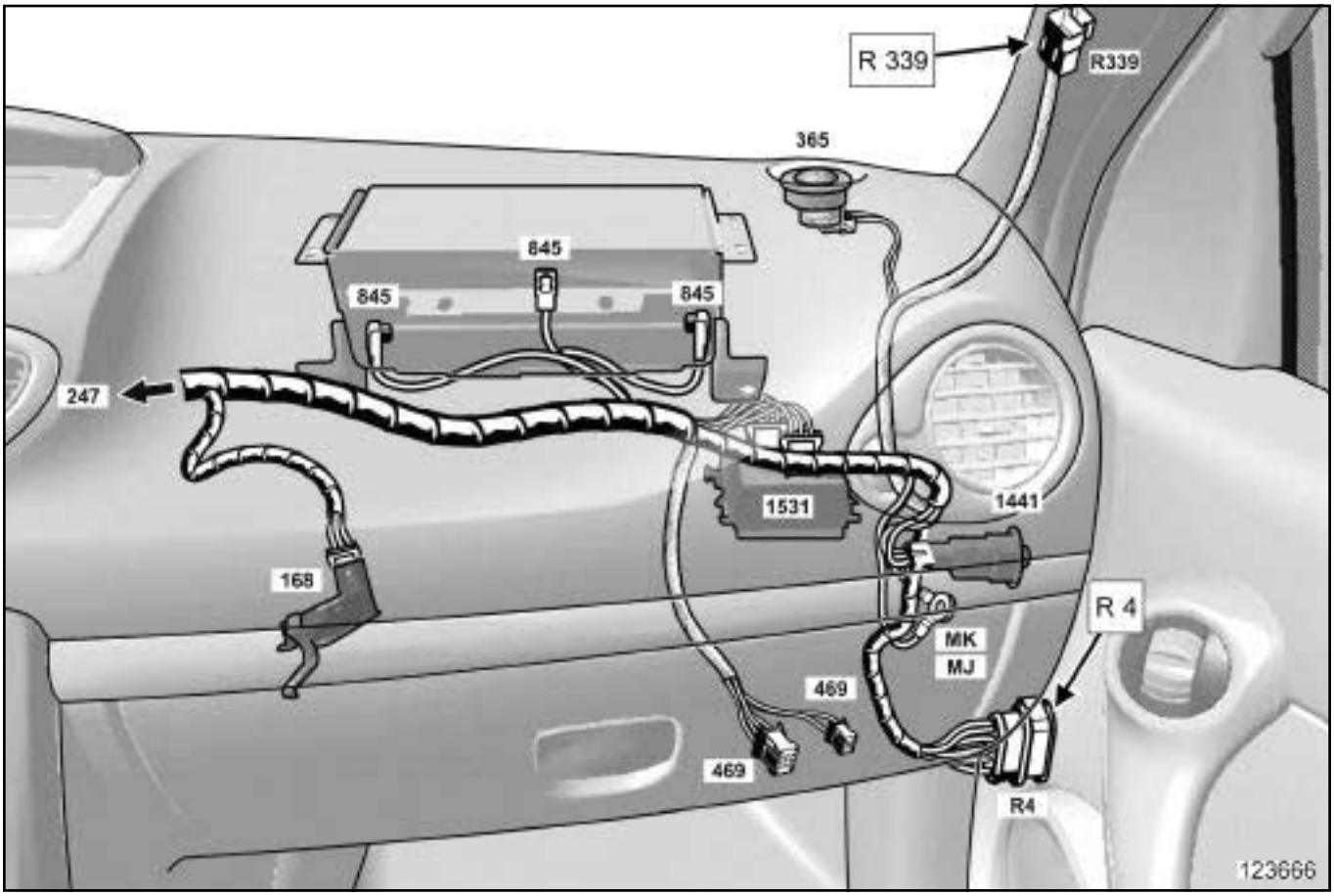
123664

- R99 connector (dashboard wiring/heating wiring connection).
- R 173 connector (dashboard wiring/wiring for one-touch steering wheel controls on sequential gearbox).



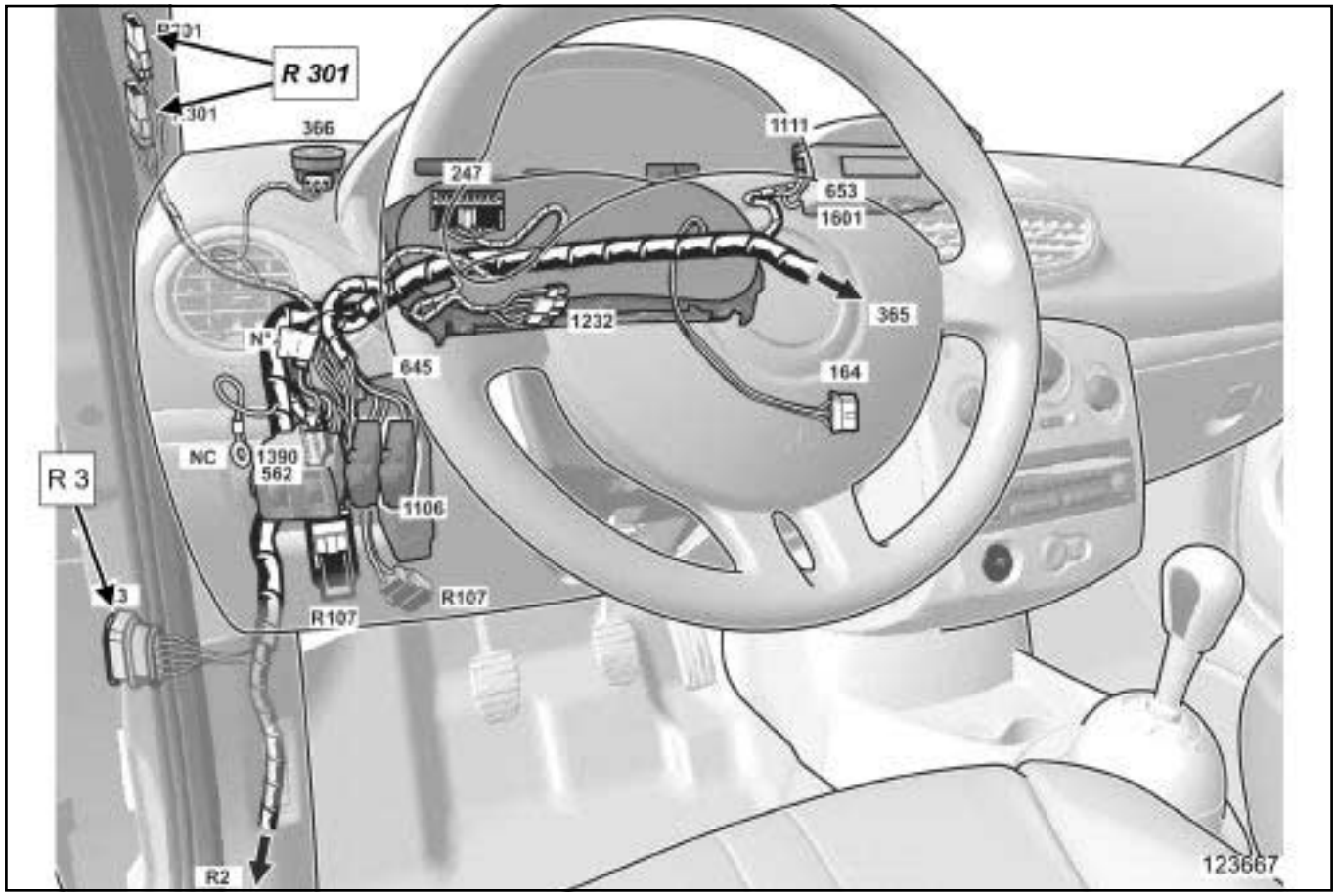
123665

❑ R107 connector (dashboard wiring/front engine wiring connection).



123666

- R4 connector (dashboard wiring/passenger door wiring connection).
- R339 connector (dashboard wiring/sunroof wiring connection).



123667

❑ R3 connector (dashboard wiring/driver's door wiring connection).

❑ R301 connector (dashboard wiring/courtesy light wiring connection).

II - ACCESS TO CONNECTORS

❑

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

1 - Access to the R 251 connectors

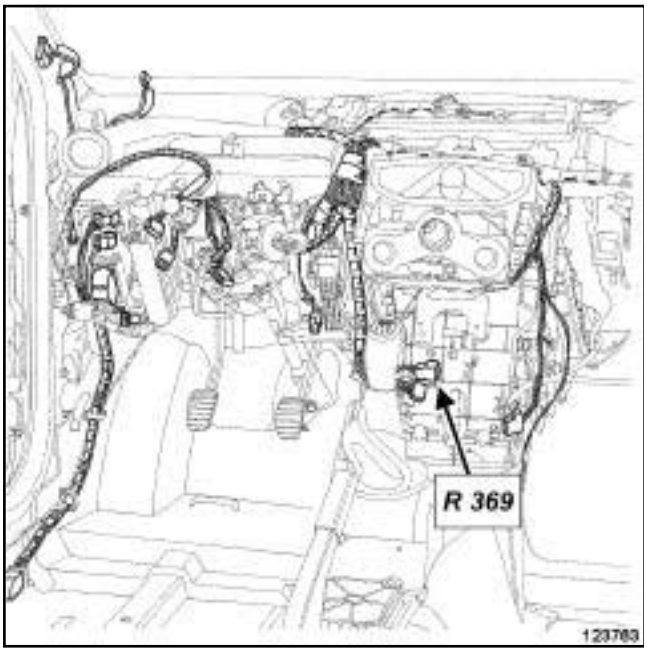
❑ Remove:

- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating),

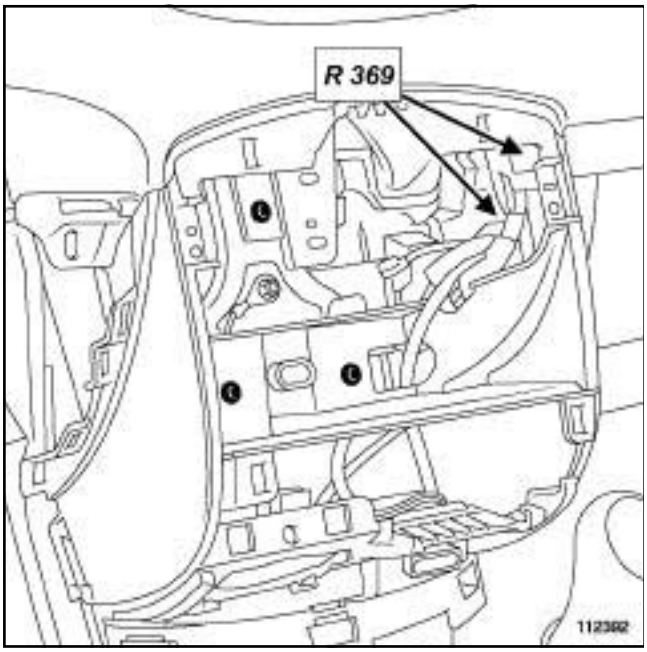
2 - Access to the R 369 connectors

❑ Remove:

- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating),



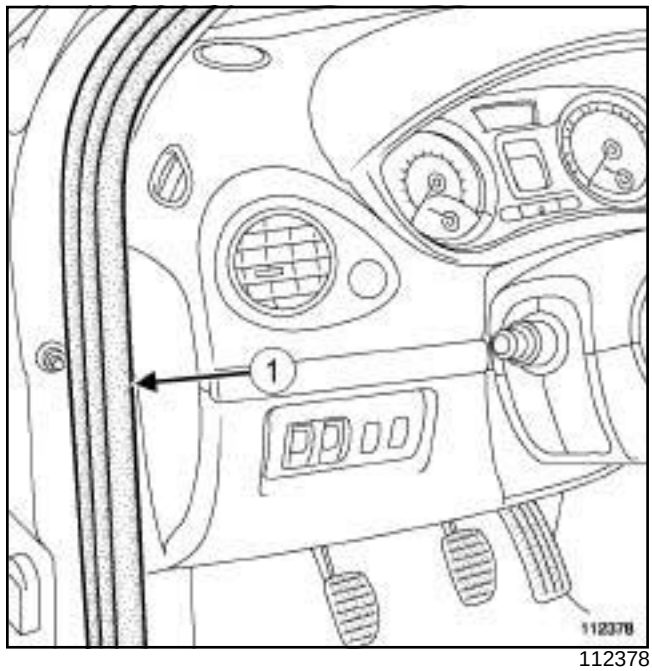
123763



112392

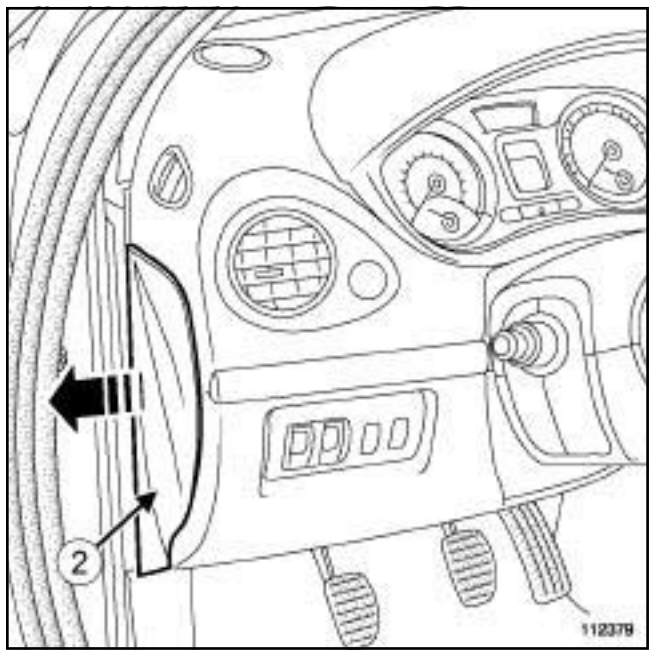
❏ Disconnect the R 369 connectors.

3 - Access to the R 99 connector



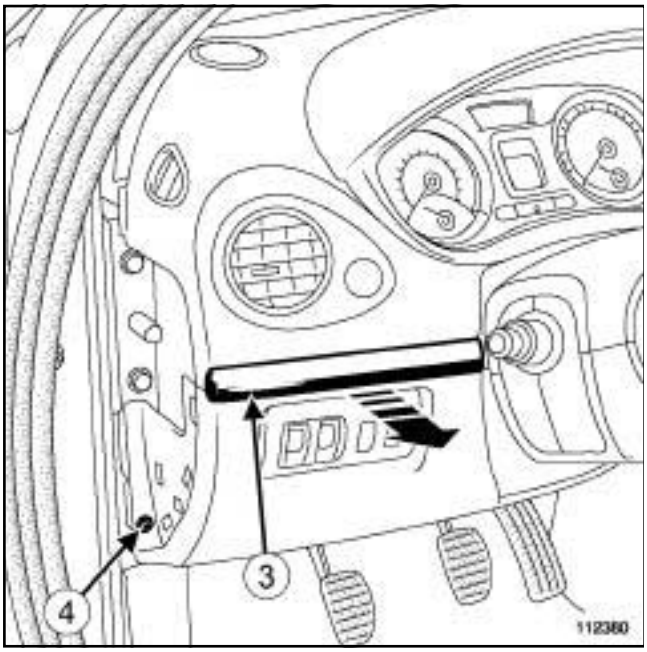
112378

❏ Partially remove seal (**1**) .



112379

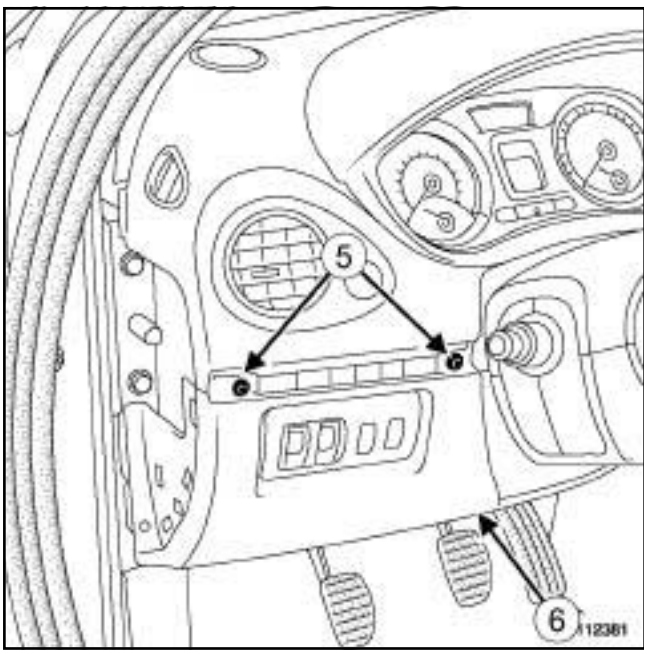
❏ Remove the dashboard side face (**2**) .



112380

❏ Unclip the trim (**3**) .

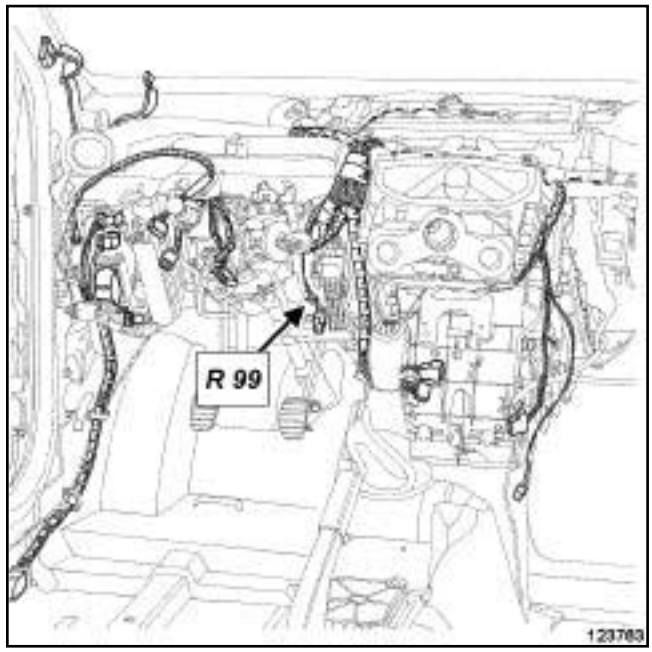
❏ Remove the dashboard lower trim bolt (**4**) .



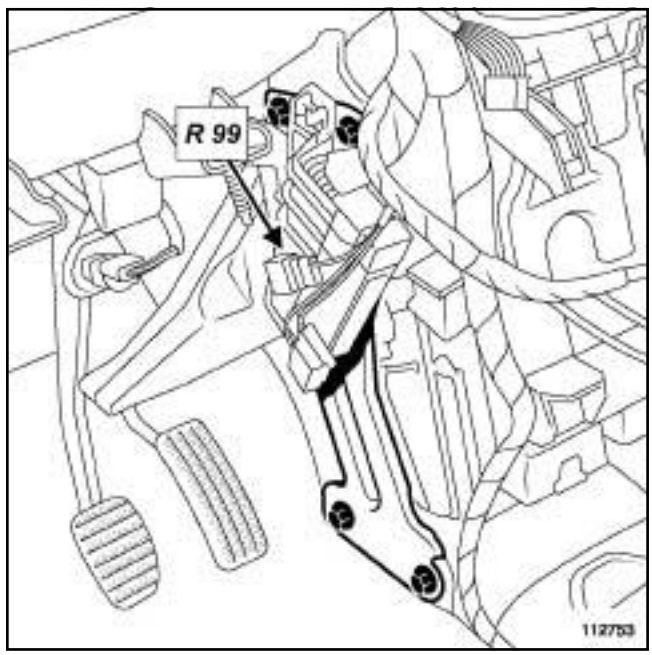
112381

❏ Remove:

- the dashboard lower trim bolts (**5**) ,
- the dashboard lower trim (**6**) .



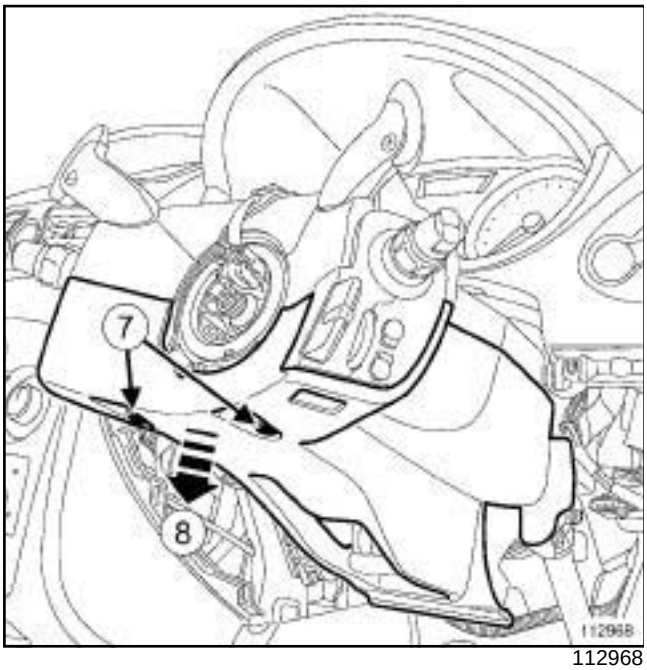
123763



112753

❏ Disconnect the R 99 connector.

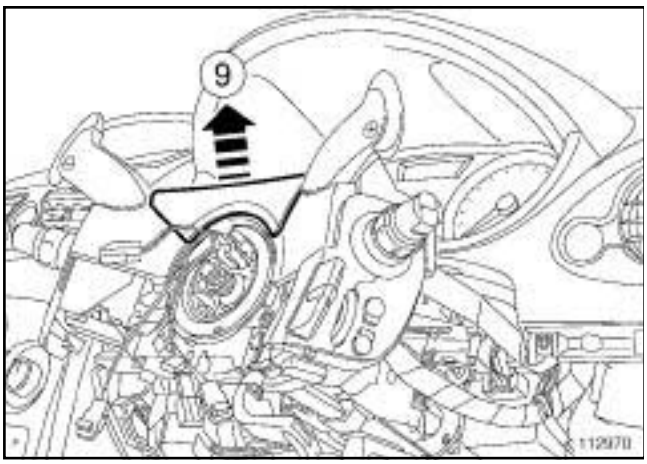
4 - Access to the R 173 connector



112968

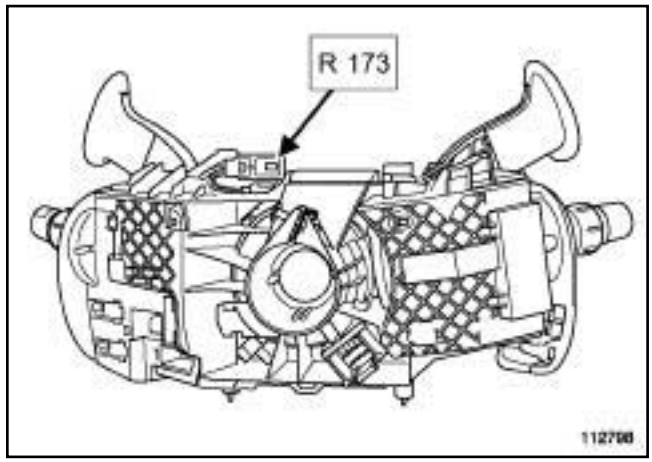
❏ Remove the bolts (**7**) from the shells under the steering wheel.

❏ Unclip the lower casing (**8**) .



112970

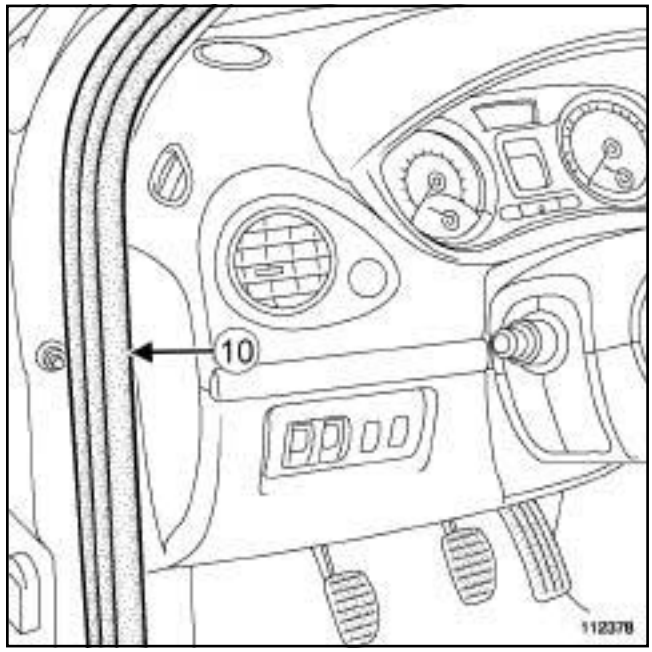
❏ Unclip the upper cover (**9**) .



112798

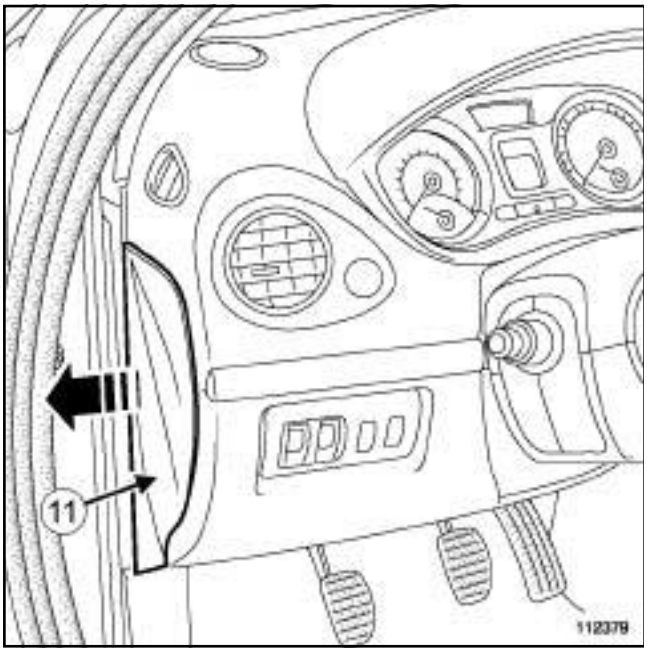
❏ Disconnect the R 173 connector.

5 - Access to the R 107 connectors



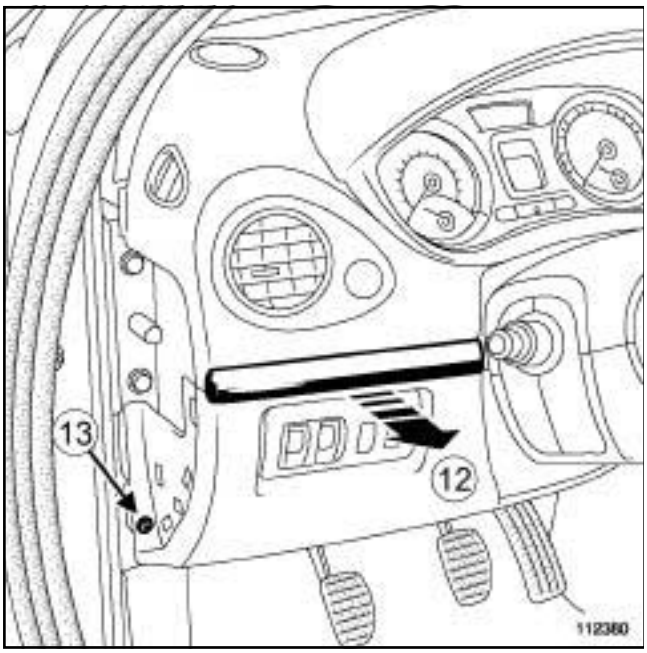
112378

❏ Partially remove seal (**10**) .



112379

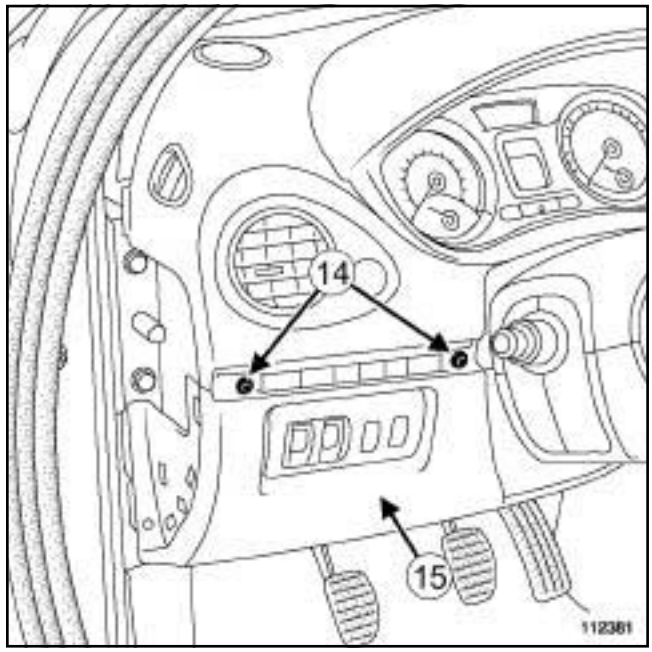
❏ Remove the dashboard side face (**11**) .



112380

❏ Unclip the trim (**12**) .

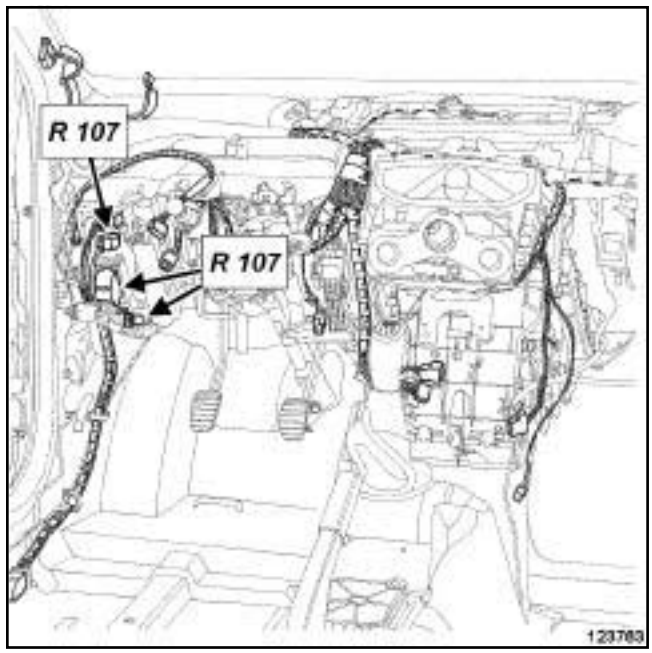
❏ Remove the dashboard lower trim bolt (**13**) .



112381

❏ Remove:

- the dashboard lower trim bolts (**14**) ,
- the dashboard lower trim (**15**) .



123763

❏ Disconnect the R 107 connectors.

6 - Access to the R 4 connector

❏ Open the passenger door.



123898

❏ Unclip the R 4 connector latch.

❏ Disconnect the R4 connector.

7 - Access to R 339 connector

❏ Remove the right-hand A-pillar trim (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).



123775

❏ Disconnect the R 339 connector.

8 - Access to the R 3 connector

❏ Open the driver's door.



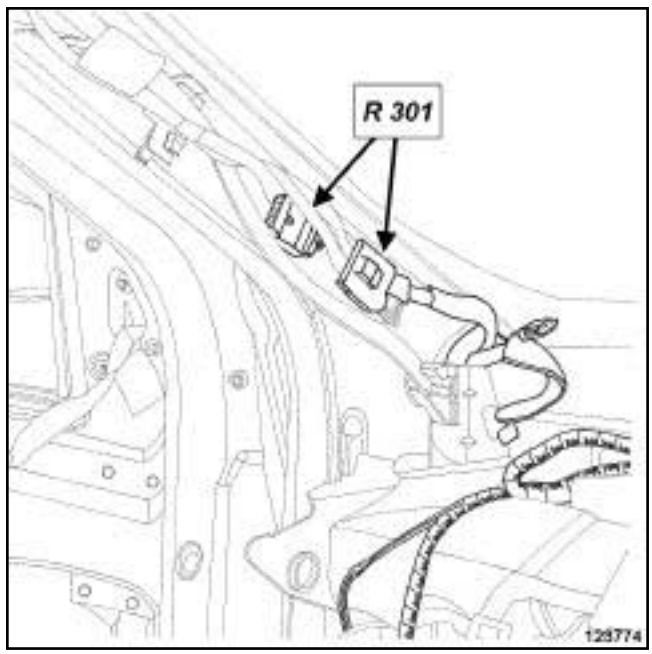
123901

❏ Unclip the R 3 connector latch.

❏ Disconnect the R3 connector.

9 - Access to the R 301 connectors

❏ Remove the left-hand A-pillar trim (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).



123774

❏ Disconnect the R 301 connectors.

LEFT-HAND DRIVE

Equipment required
Diagnostic tool

Tightening torques ▽	
earth terminal nuts	**8 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

IMPORTANT
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 88C, Airbags and pretensioners).

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Remove:

- the driver's side front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36A, Steering assembly),
- the dashboard cover gaiter (see **Dashboard cover gaiter: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the instrument panel (see **83A**, **Instrument panel**, **Instrument panel: Removal - Refitting**, page **83A-3**) ,
- the display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) ,

SCHOOL VEHICLE

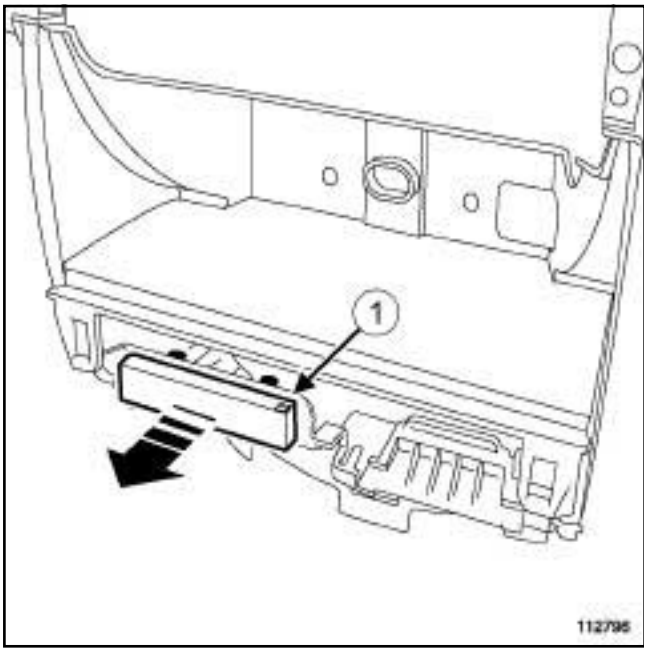
❑ Remove the driving school repeater electrical control unit (see **84A**, **Control - Signals**, **Driving school repeater electrical control unit: Removal - Refitting**, page **84A-24**) .

❑ Remove:

- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),

LEFT-HAND DRIVE

VEHICLE WITH CARD



112796

❑ Disconnect the dashboard starter aerial connector (**1**) .

❑ Remove:

- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the tweeters (see **86A**, **Radio**, **Tweeter: Removal - Refitting**, page **86A-13**) ,
- the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the front left-hand door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating),

❑ Move aside the front left-hand section of the centre floor front carpet.

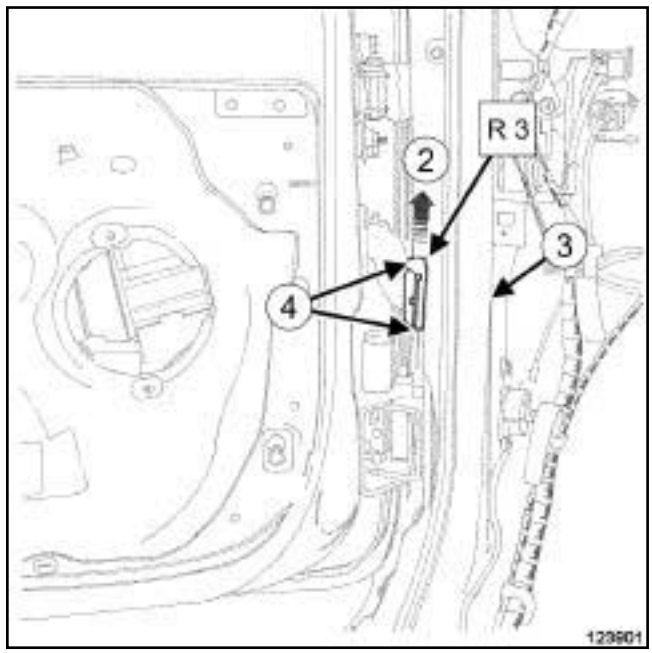
II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

❑ Open the driver's door.



123901

❑ Unclip the R 3 connector latch (**2**) .

❑ Disconnect the R3 connector.

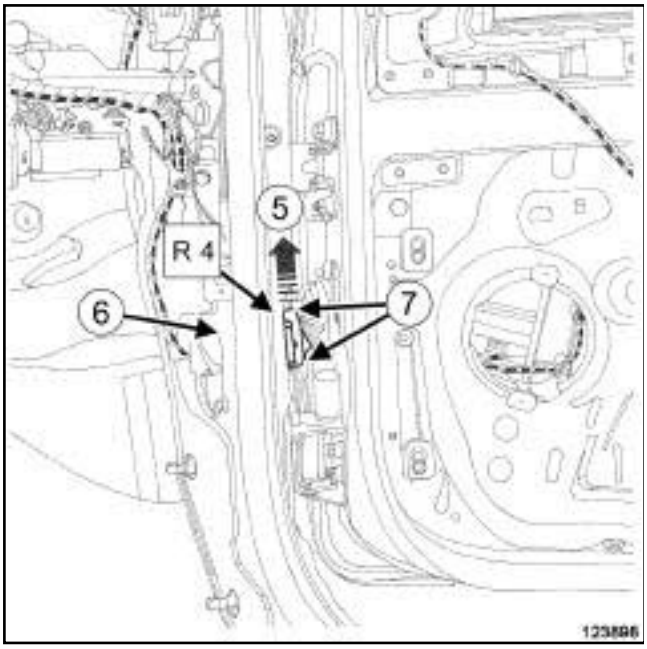
❑ Remove:

- the foam (**3**) ,
- The R 3 connector bolts (**4**) .

❑ Remove the dashboard wiring harness from the body.

❑ Open the passenger door.

LEFT-HAND DRIVE



123898

❏ Unclip the R 4 connector latch (**5**) .

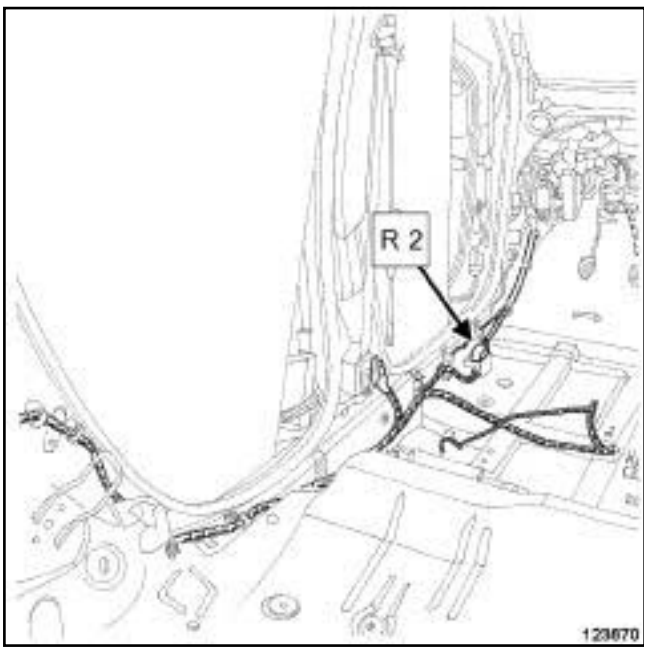
❏ Disconnect the R4 connector.

❏ Remove:

- the foam (**6**) ,

- The R 4 connector bolts (**7**) .

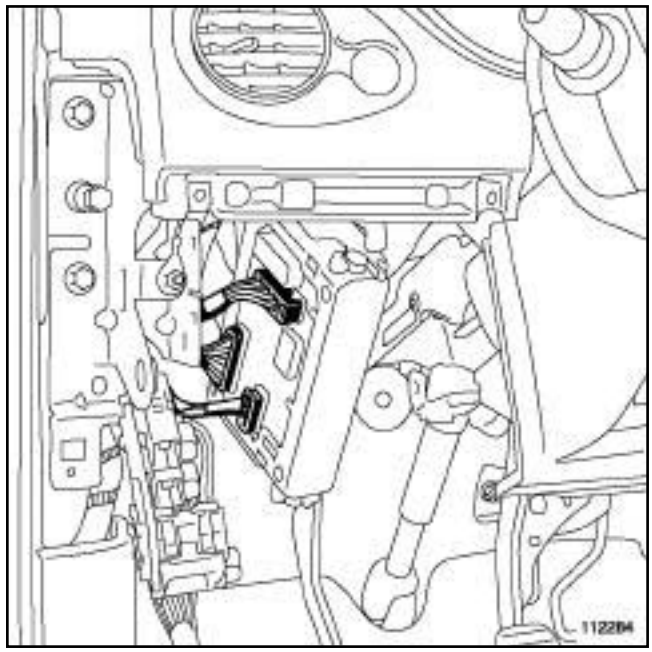
❏ Remove the dashboard wiring harness from the body.



123670

❏ Disconnect the R 2 connector.

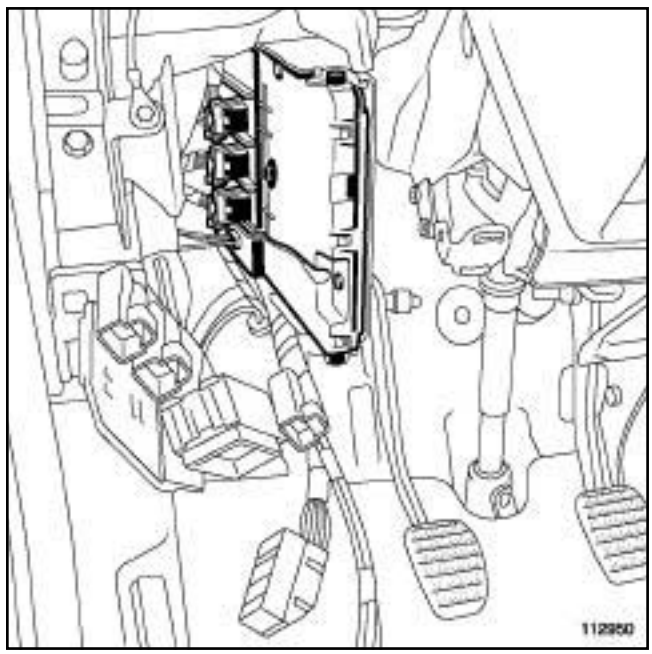
VEHICLE WITH KEY



112284

❏ Disconnect the connectors from the UCH.

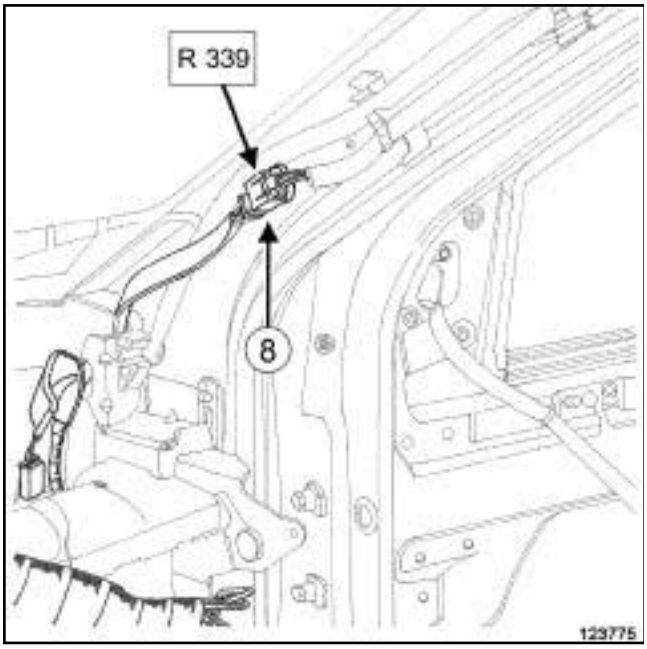
VEHICLE WITH CARD



112950

❏ Disconnect the connectors from the UCH.

LEFT-HAND DRIVE

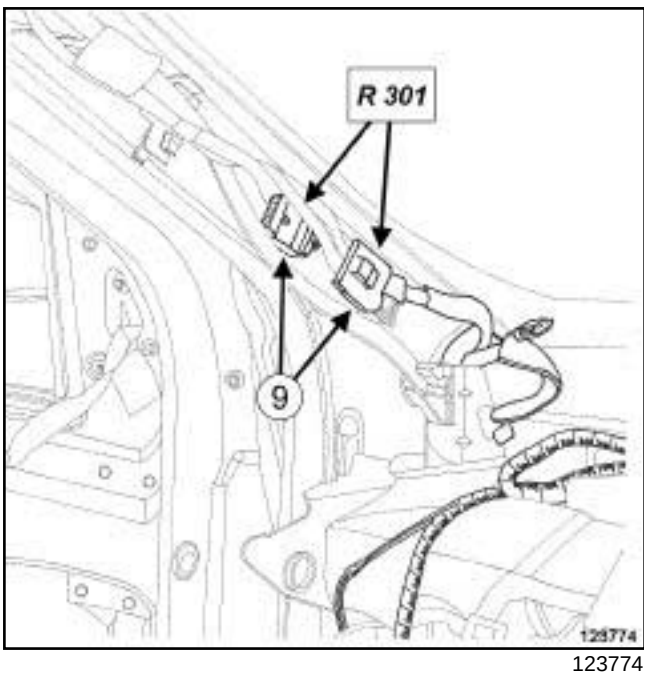


123775

❏ Unclip the dashboard wiring harness (**8**) .

PANORAMIC SUNROOF

❏ Disconnect the R 339 connector.



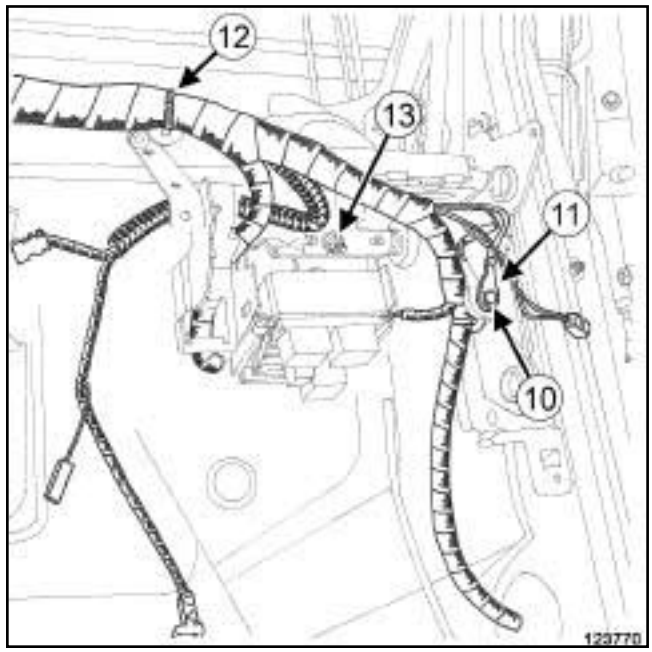
123774

❏ Unclip the dashboard wiring harness (**9**) .

❏ Disconnect the R 301 connector.

LIGHTS + AUTOMATIC WINDSCREEN WIPER

❏ Disconnect the R 301 connector.



123770

❏ Remove the nut (**10**) .

❏ Disconnect the earth terminals (**11**) .

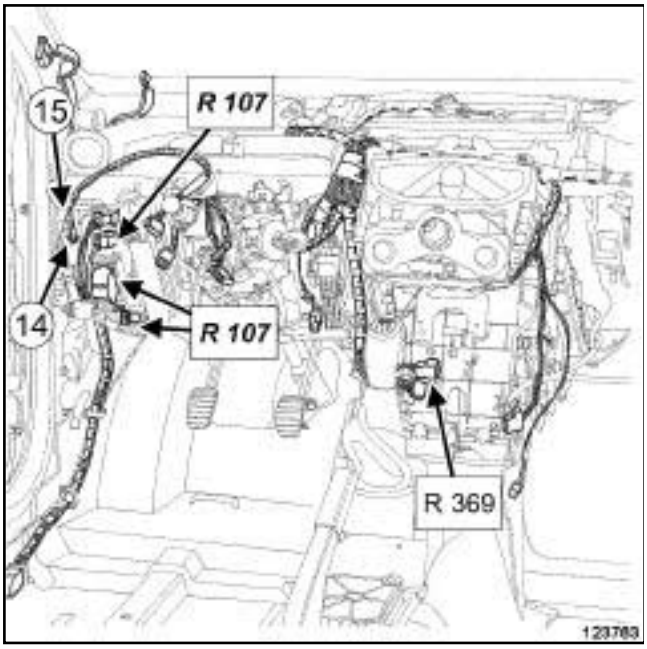
❏ Unclip the dashboard wiring harness (**12**) .

❏ Remove:

- the additional relay/fuse box nut (**13**) ,
- the additional relay/fuse box.

❏ Disconnect the additional relay/fuse box connectors.

LEFT-HAND DRIVE

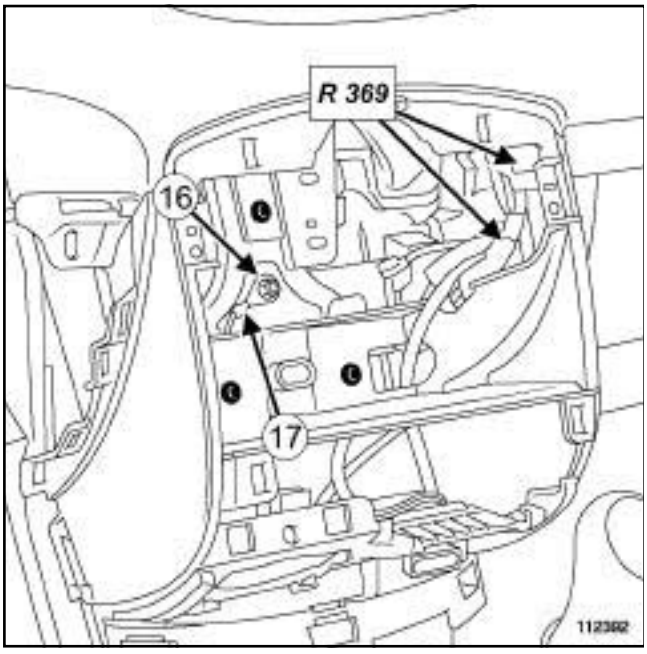


123763

❏ Remove the nut (**14**) .

❏ Disconnect:

- the earth terminal (**15**) ,
- the R 107 connectors,
- the R 369 connector,
- The electric power assisted steering connectors.



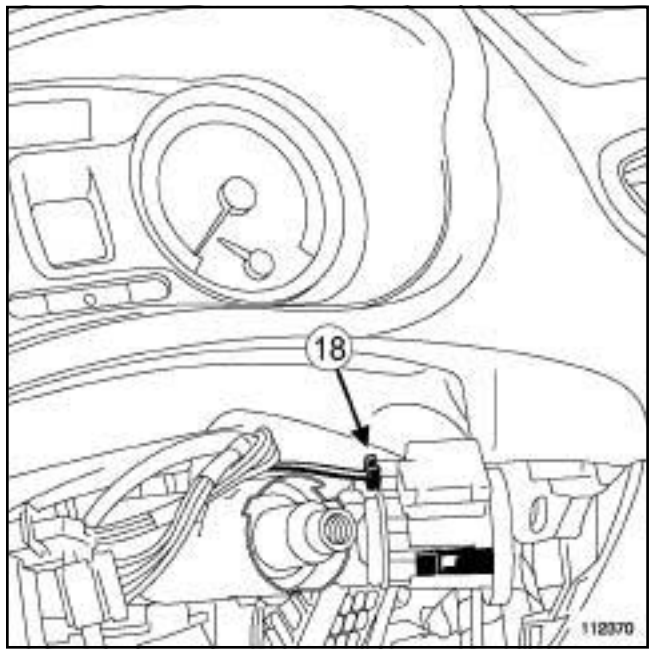
112392

❏ Remove the radio earth nut (**16**) .

❏ Disconnect:

- the earth terminal (**17**) ,
- the R 369 connectors.

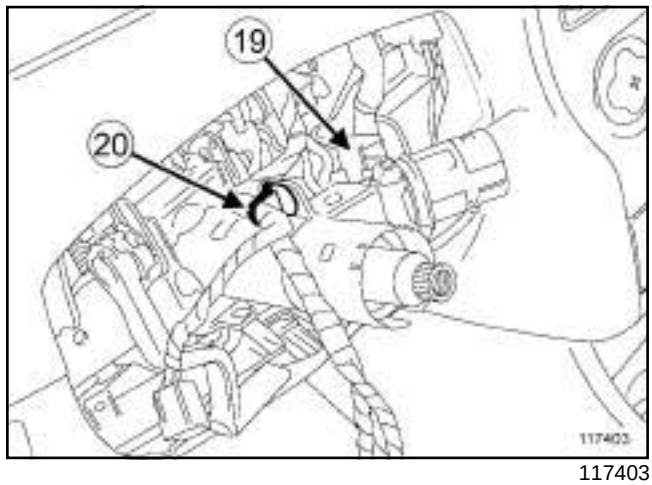
VEHICLE WITH KEY



112370

❏ Disconnect the antenna/transponder ring connector (**18**) .

VEHICLE WITH KEY



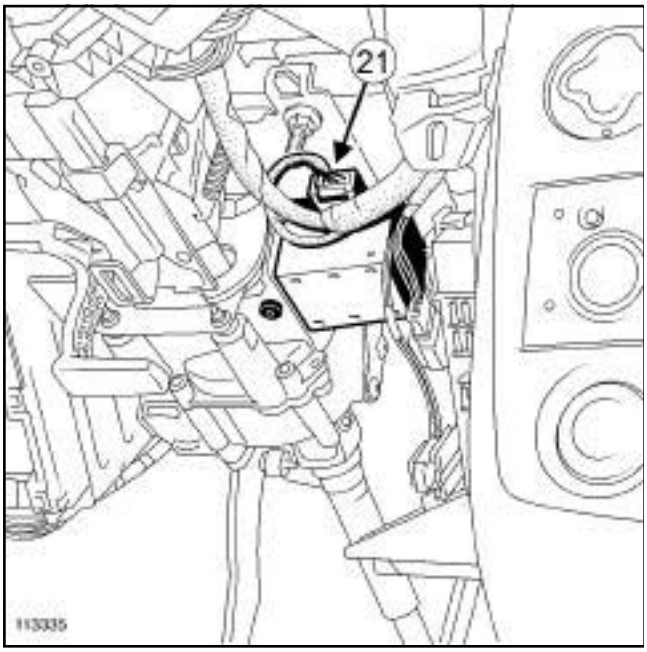
117403

❏ Disconnect the ignition switch connector (**19**) .

❏ Unclip the wiring at (**20**) .

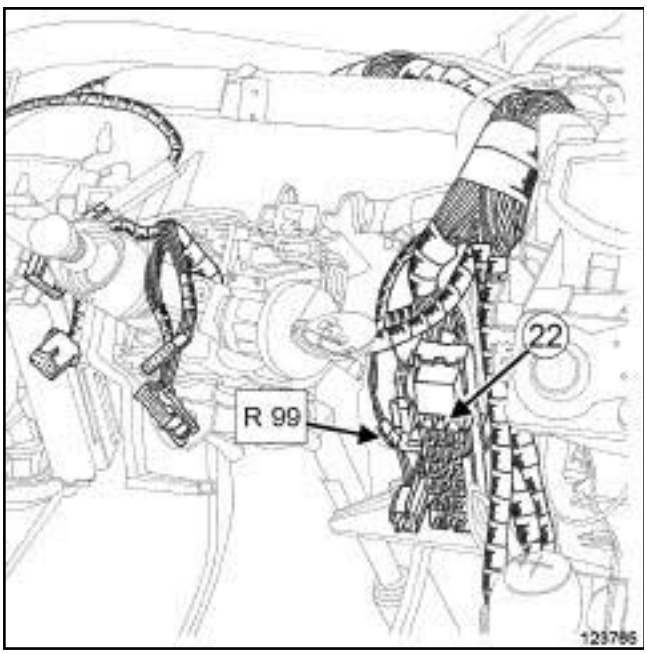
LEFT-HAND DRIVE

VEHICLE WITH CARD



113335

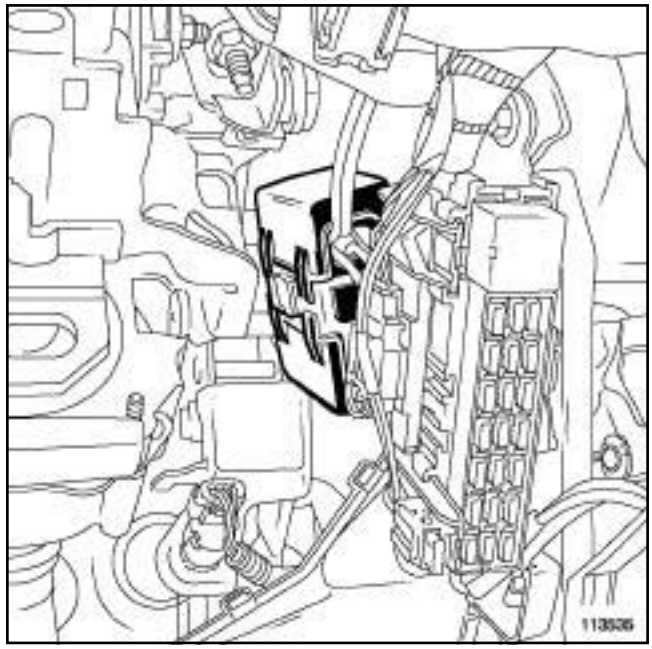
❏ Disconnect the electric steering column lock connector (**21**) .



123765

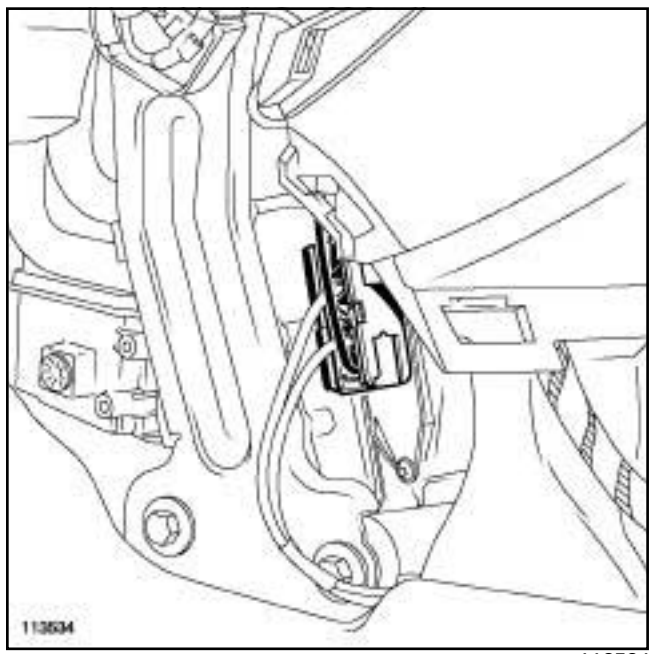
❏ Disconnect the R 99 connector.

❏ Unclip the passenger compartment fuse and relay box (**22**) .



113535

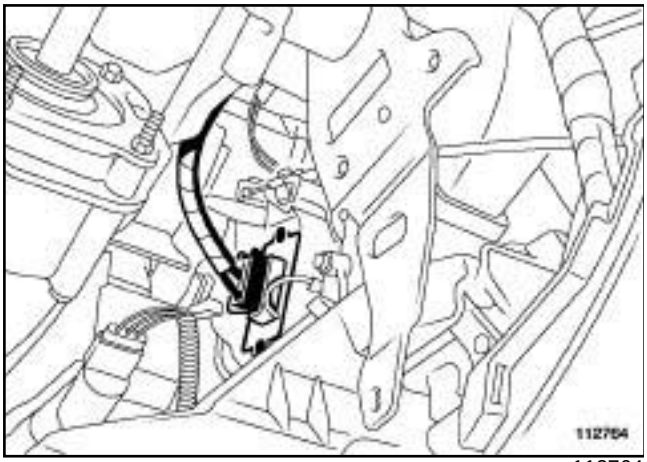
❏ Unclip the heating resistor relay unit.



113534

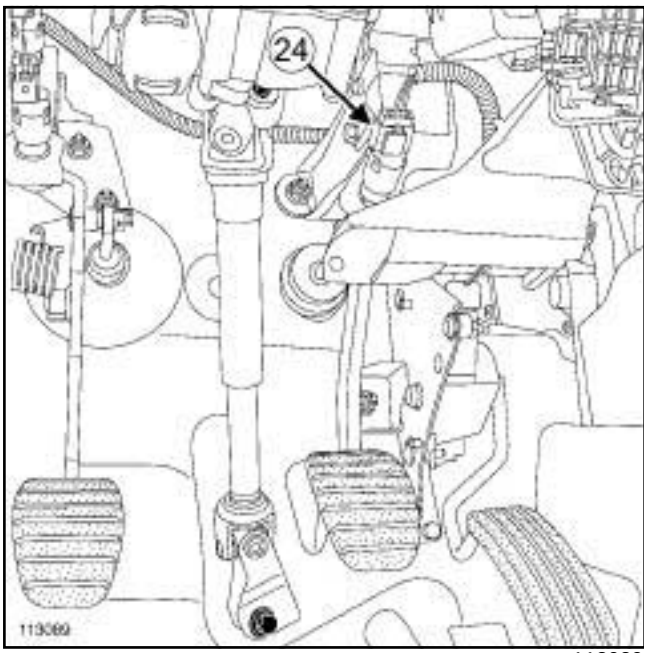
❏ Disconnect the heating resistor connector.

LEFT-HAND DRIVE



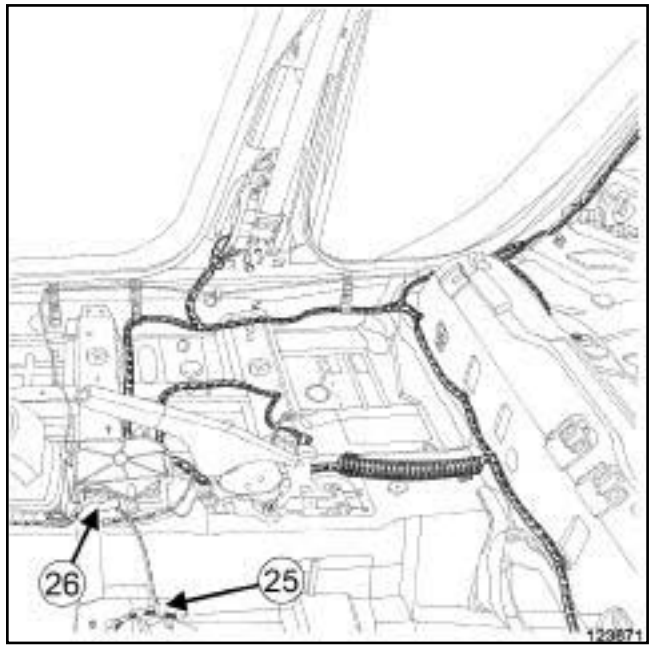
112764

❏ Disconnect the fan assembly control unit connector.



113089

❏ Disconnect the brake light switch connector (**24**) .



123671

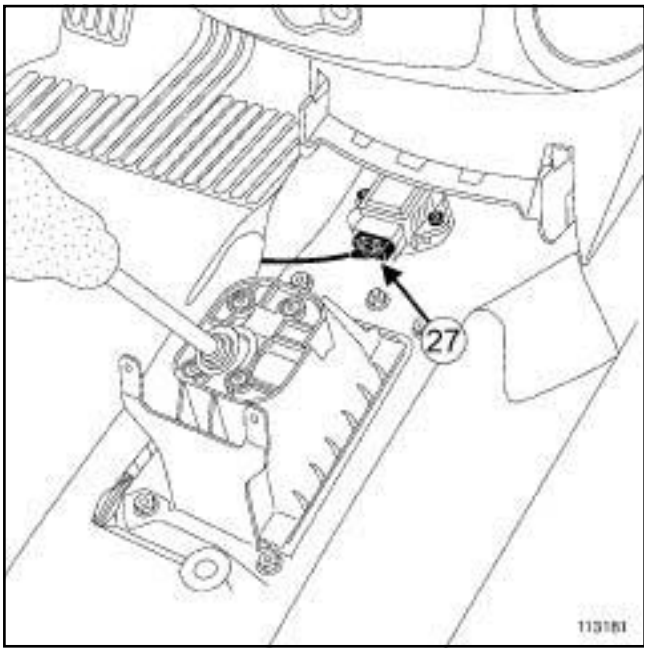
❏ Remove the nut (**25**) .

❏ Disconnect:

- the airbag computer connector (**26**) ,
- the earth terminal,
- the handbrake switch.

LEFT-HAND DRIVE

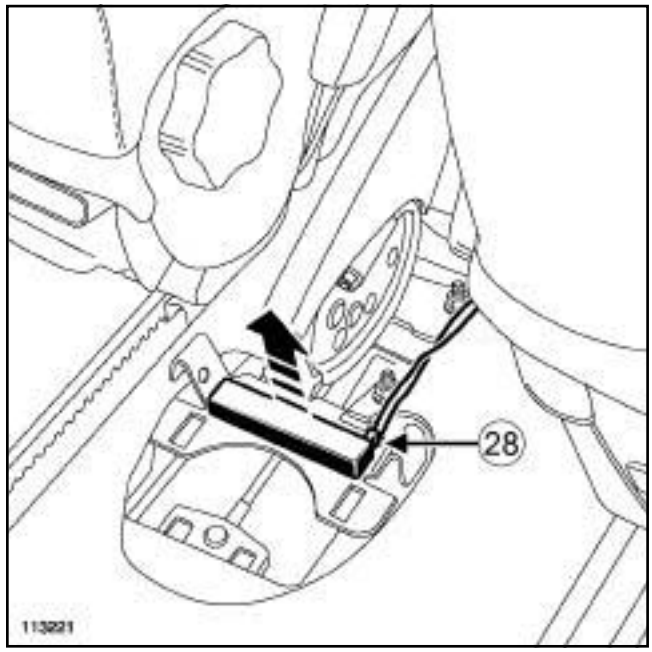
ELECTRONIC STABILITY PROGRAM



113181

❑ Disconnect the lateral acceleration and yaw sensor connector (**27**) .

VEHICLE WITH CARD



113221

❑ Disconnect the starter aerial connector (**28**) .

❑ Unclip the wiring.

❑ Remove the wiring.

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

❑ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

I - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the harness.

❑ Attach the wiring.

LEFT-HAND DRIVE

VEHICLE WITH CARD

❑ Connect the centre console starter aerial connector.

ELECTRONIC STABILITY PROGRAM

❑ Connect the lateral acceleration and yaw sensor connector.

❑ Connect:

- the earth on the centre floor ***(25)*** ,
- the airbag computer connector,
- the handbrake switch.

❑ Torque tighten the **earth terminal nut (8 Nm)**.

❑ Clip:

- the passenger compartment fuse and relay box.
- the heating resistor relay unit.

❑ Connect:

- the brake light switch connector,
- the clutch pedal sensor connectors,
- the fan assembly control unit connector,
- the heating resistor connector,
- the R 99 connector.

VEHICLE WITH CARD

❑ Connect the electric steering column lock connector.

VEHICLE WITH KEY

❑ Connect:

- the antenna/transponder ring connector,
- the starter switch connector.

❑ Clip the wiring on the steering column.

❑ Connect:

- the electric power assisted steering connectors,
- the R 107 connectors,
- the R 369 connectors,
- the right-hand dashboard cross member earth terminals ***(11)*** in the position marked during removal,
- the radio earth terminal on the centre section of the dashboard cross member ***(16)*** ,
- the left-hand dashboard cross member earth terminal ***(15)*** .

❑ Torque tighten the **earth terminal nuts (8 Nm)**.

❑ Refit:

- the additional relay/fuse box,
- the additional relay/fuse box nut.

❑ Reconnect the additional relay/fuse box connectors.

❑ Clip the dashboard wiring harness.

LIGHTS + AUTOMATIC WINDSCREEN WIPER

❑ Connect the R 301 connector.

❑ Connect the R 301 connector.

❑ Clip the dashboard wiring harness on the left-hand A-pillar trim.

PANORAMIC SUNROOF

❑ Connect the R 339 connector.

❑ Clip the dashboard wiring harness on the right-hand A-pillar trim.

❑ Connect:

- the UCH connectors,
- the R 2 connector,
- The R 3 and R 4 connectors.

❑ Refit:

- the bolts for the R 3 and R 4 connectors,
- the protective foam for the R 3 and R 4 connectors.

❑ Clip on the R 3 and R 4 connector mountings.

II - FINAL OPERATION.

❑ Refit the front left-hand section of the centre floor front carpet.

LEFT-HAND DRIVE

❏ Refit:

- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating system),
- the front left-hand door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the tweeters (see **86A**, **Radio**, **Tweeter: Removal - Refitting**, page **86A-13**) ,
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),

VEHICLE WITH CARD

❏ Connect the dashboard starter aerial connector.

❏ Refit:

- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment),

SCHOOL VEHICLE

❏ Refit the driving school repeater electrical control unit (see **84A**, **Control - Signals**, **Driving school repeater electrical control unit: Removal - Refitting**, page **84A-24**) .

❏ Refit:

- the display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) ,
- the instrument panel (see **83A**, **Instrument panel**, **Instrument panel: Removal - Refitting**, page **83A-3**) ,
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the dashboard cover gaiter (see **Dashboard cover gaiter: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36A, Steering assembly),
- the driver's front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❏ Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 88C, Airbags and pretensioners).

RIGHT-HAND DRIVE

Equipment required
Diagnostic tool

Tightening torques ▽	
earth terminal nuts	**8 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

WARNING

To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 88C, Airbags and pretensioners).

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove:

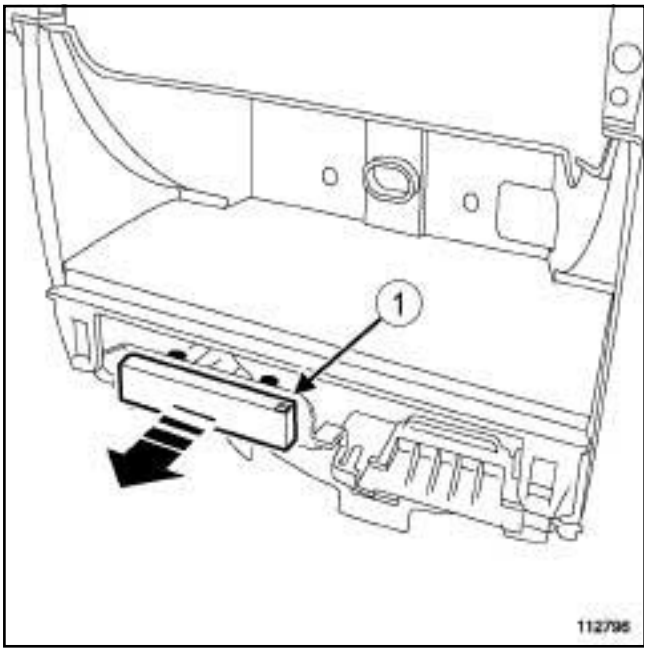
- the driver's side front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36A, Steering assembly),
- the dashboard cover gaiter (see **Dashboard cover gaiter: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the instrument panel (see **83A**, **Instrument panel**, **Instrument panel: Removal - Refitting**, page **83A-3**) ,
- the display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) .

❏ Remove:

- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),

RIGHT-HAND DRIVE

VEHICLE WITH CARD



112796

❑ Disconnect the dashboard starter aerial connector (**1**) .

❑ Remove:

- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the tweeters (see **86A**, **Radio**, **Tweeter: Removal - Refitting**, page **86A-13**) ,
- the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the front left-hand door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating),

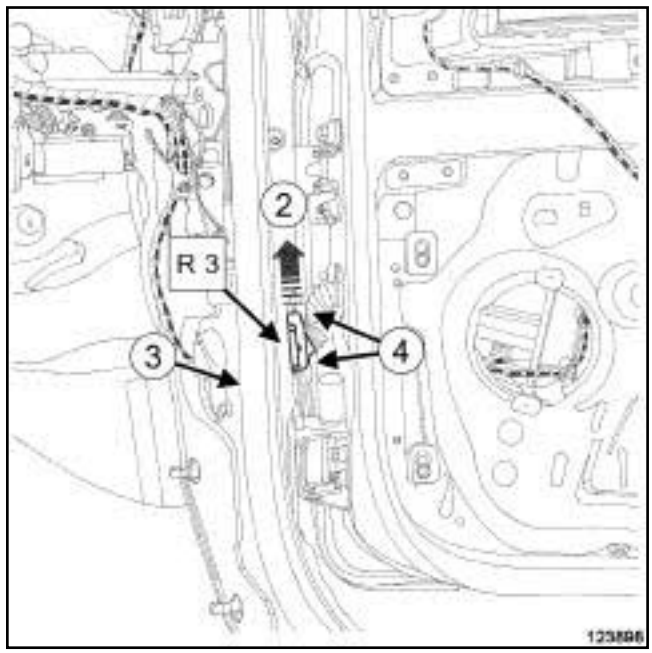
❑ Move aside the front left-hand section of the centre floor front carpet.

II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

WARNING
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

❑ Open the driver's door.



123898

❑ Unclip the R 3 connector latch (**2**) .

❑ Disconnect the R 3 connector.

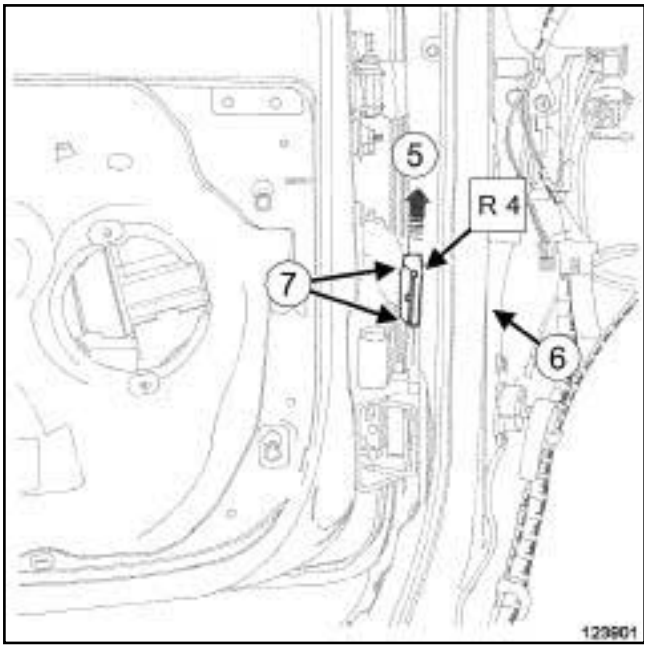
❑ Remove:

- the foam (**3**) ,
- The R 3 connector bolts (**4**) .

❑ Remove the dashboard wiring harness from the body.

❑ Open the passenger door.

RIGHT-HAND DRIVE



123901

❏ Unclip the R 4 connector latch (**5**) .

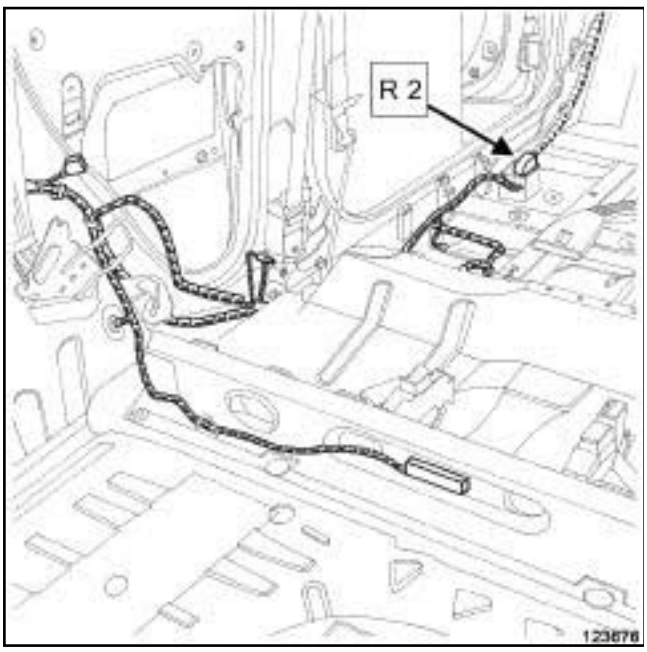
❏ Disconnect the R4 connector.

❏ Remove:

- the foam (**6**) ,

- the R 4 connector bolts (**7**) .

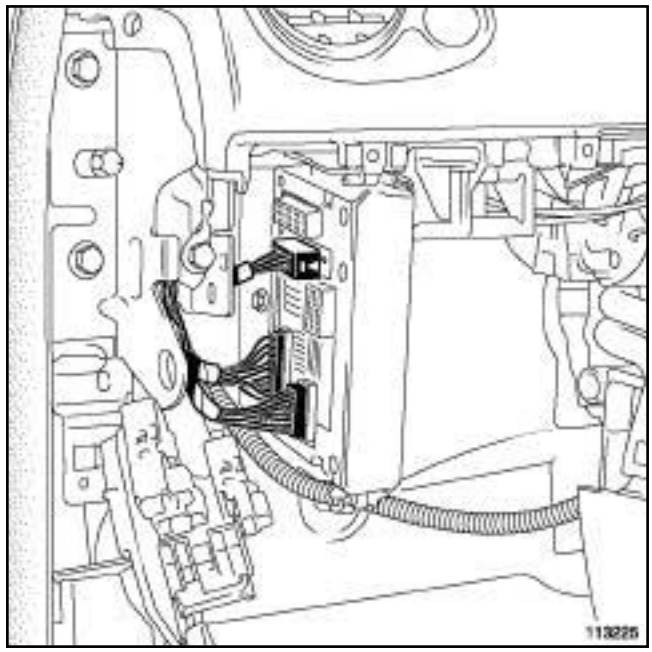
❏ Remove the dashboard wiring harness from the body.



123676

❏ Disconnect the R 2 connector.

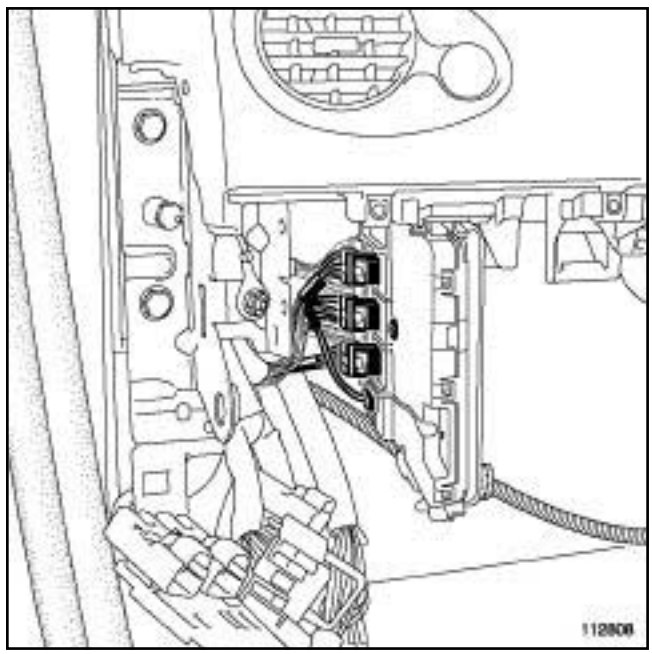
VEHICLE WITH KEY



113225

❏ Disconnect the connectors from the UCH.

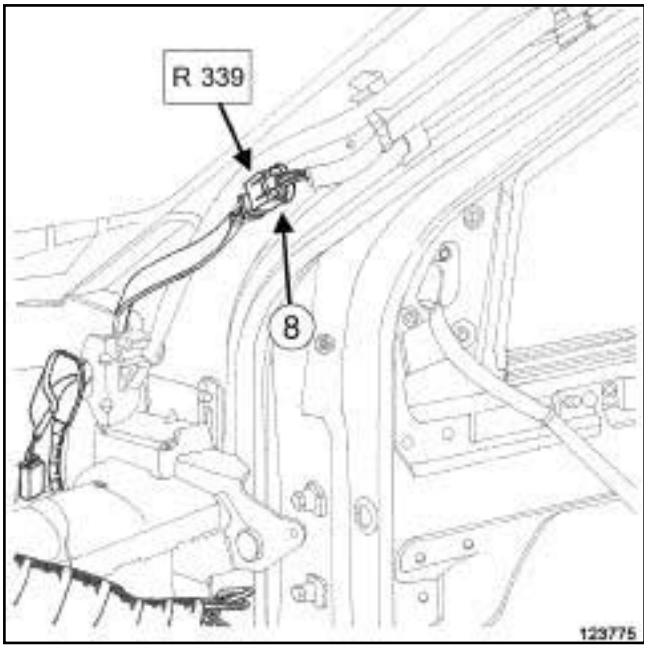
VEHICLE WITH CARD



112808

❏ Disconnect the connectors from the UCH.

RIGHT-HAND DRIVE

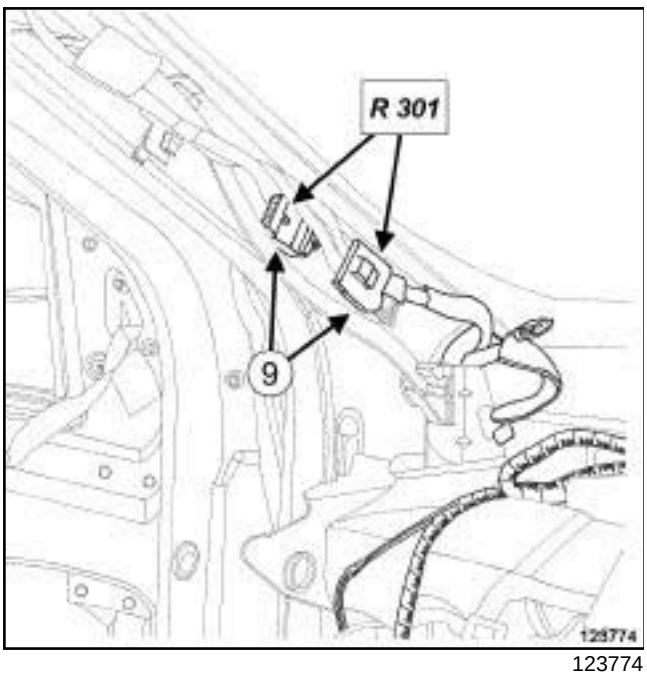


123775

❏ Unclip the dashboard wiring harness (**8**) .

PANORAMIC SUNROOF

❏ Disconnect the R 339 connector.



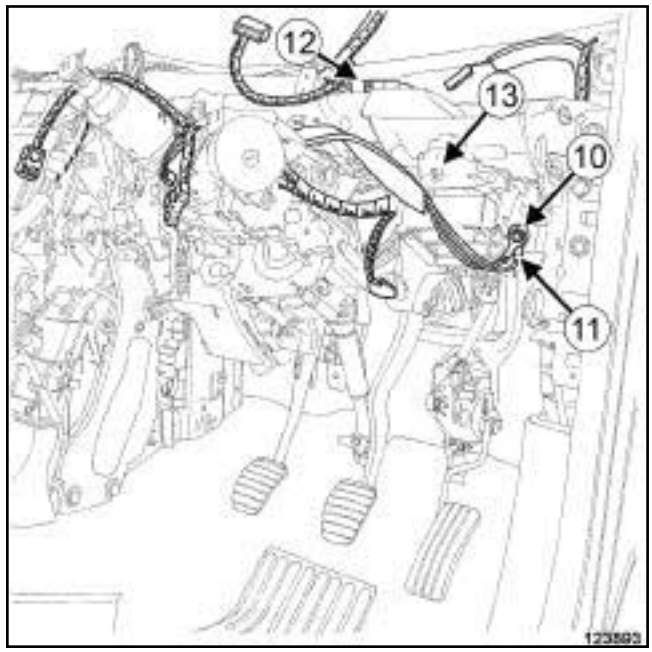
123774

❏ Unclip the dashboard wiring harness (**9**) .

❏ Disconnect the R 301 connector.

LIGHTS + AUTOMATIC WINDSCREEN WIPER

❏ Disconnect the R 301 connector.



123893

❏ Remove the earth terminal nuts (**10**) .

❏ Disconnect the earth terminals (**11**) .

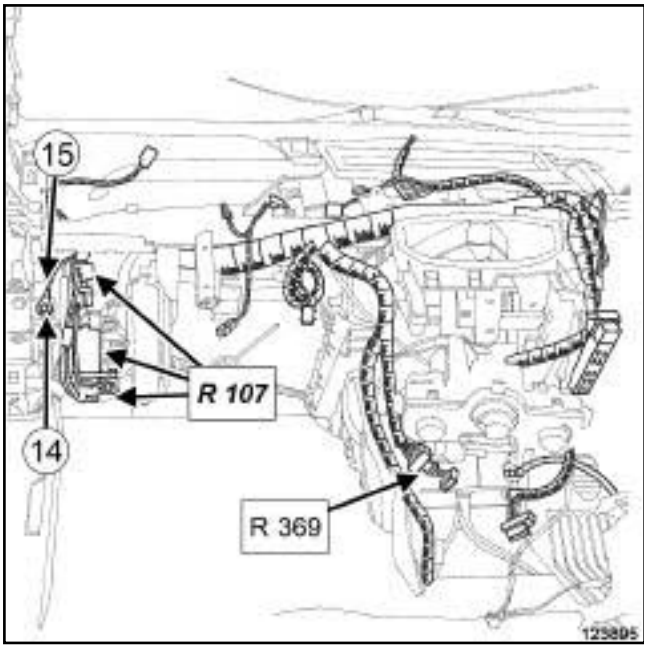
❏ Unclip the dashboard wiring harness (**12**) .

❏ Remove:

- the additional relay/fuse box nut (**13**) ,
- the additional relay/fuse box

❏ Disconnect the additional relay/fuse box connectors.

RIGHT-HAND DRIVE



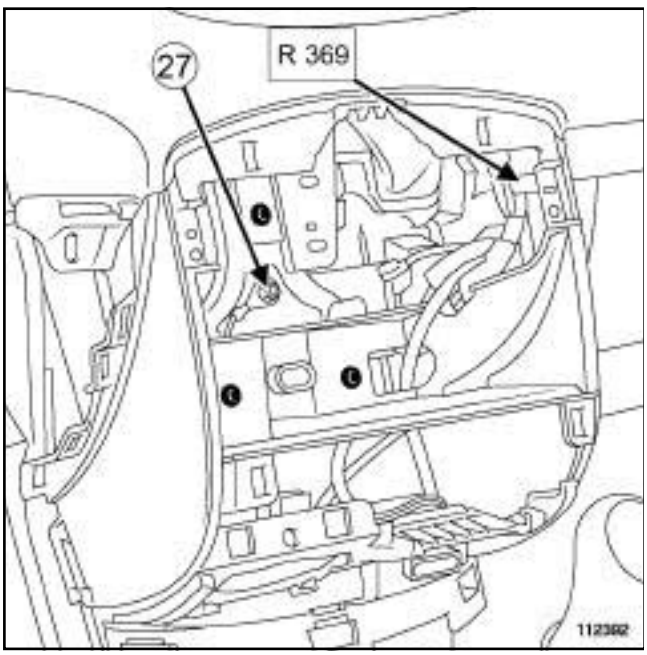
123895

❏ Remove:

- the nut (**14**) ,

❏ Disconnect:

- the earth terminal (**15**) ,
- the R 107 connectors,



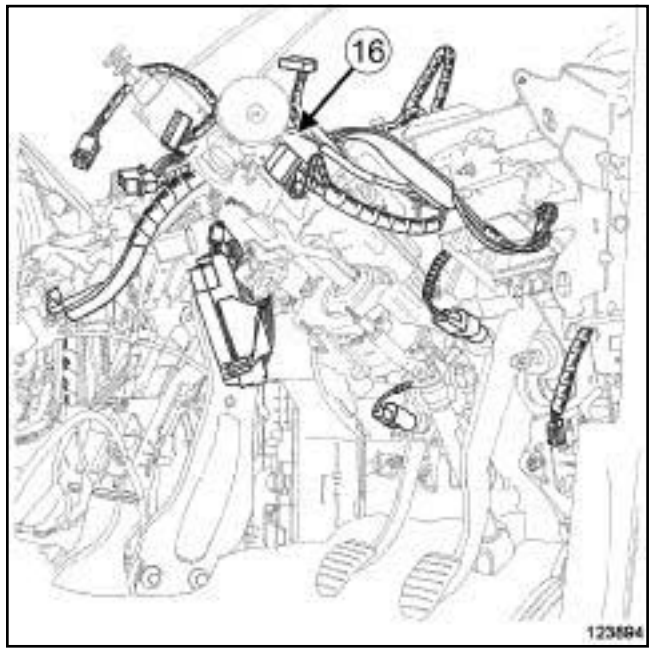
112392

❏ Remove the radio earth terminal nut (**27**) .

❏ Disconnect:

- the radio earth terminal on the cross member centre panel (**27**) ,
- the R 369 connectors.

VEHICLE WITH KEY



123894

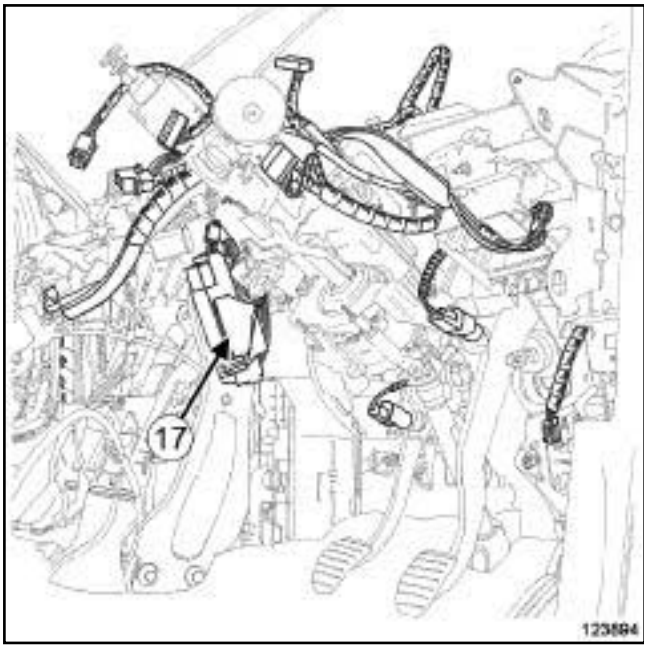
❏ Disconnect:

- Disconnect the antenna/transponder ring connector (**16**) ,
- the starter switch connector.

VEHICLE WITH CARD

❏ Disconnect the electric steering column lock connector.

RIGHT-HAND DRIVE

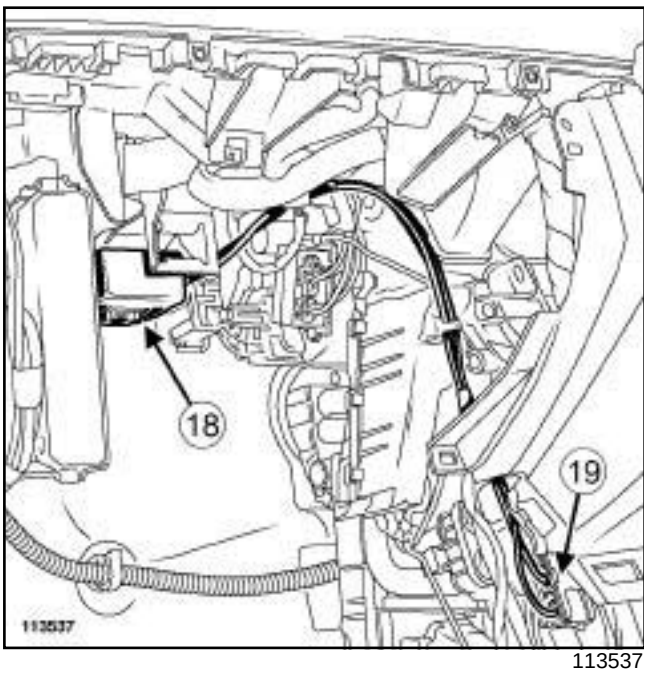


123894

❏ Disconnect:

- the R 99 connector,
- The electric power assisted steering connectors.

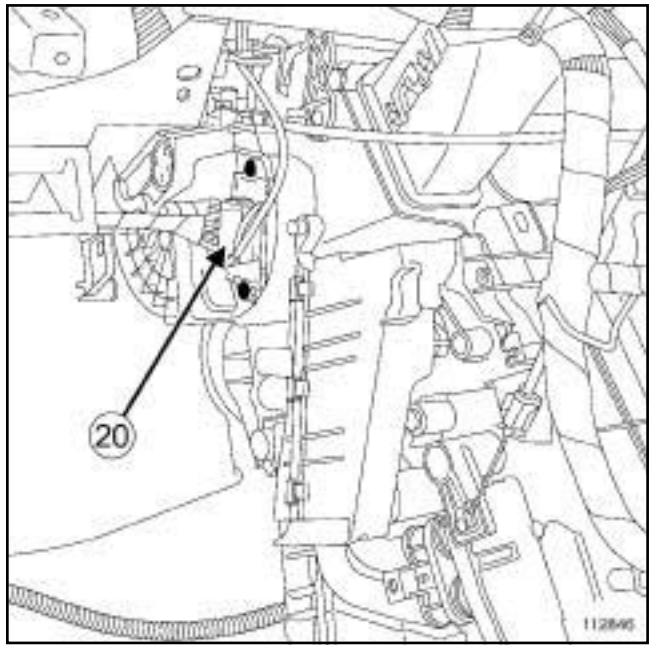
❏ Unclip the passenger compartment fuse and relay box (**17**) .



113537

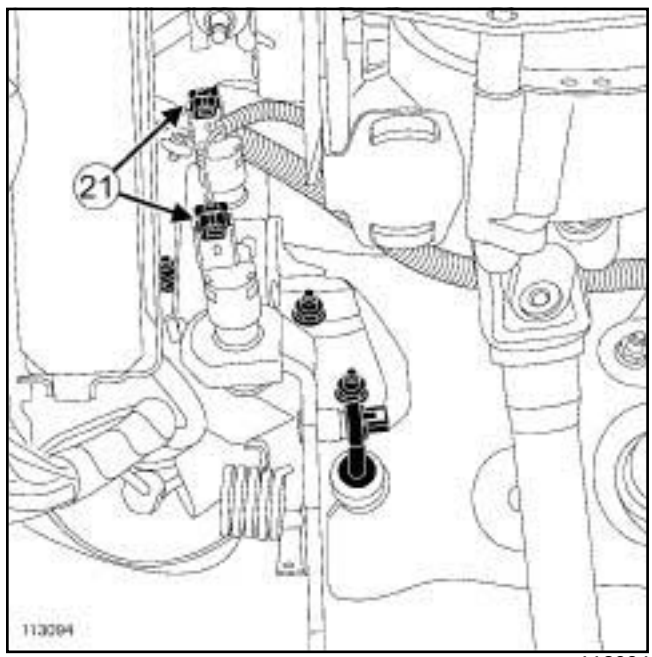
❏ Unclip the heating resistor relay unit (**18**) .

❏ Disconnect the connector (**19**) from the heating resistors.



112846

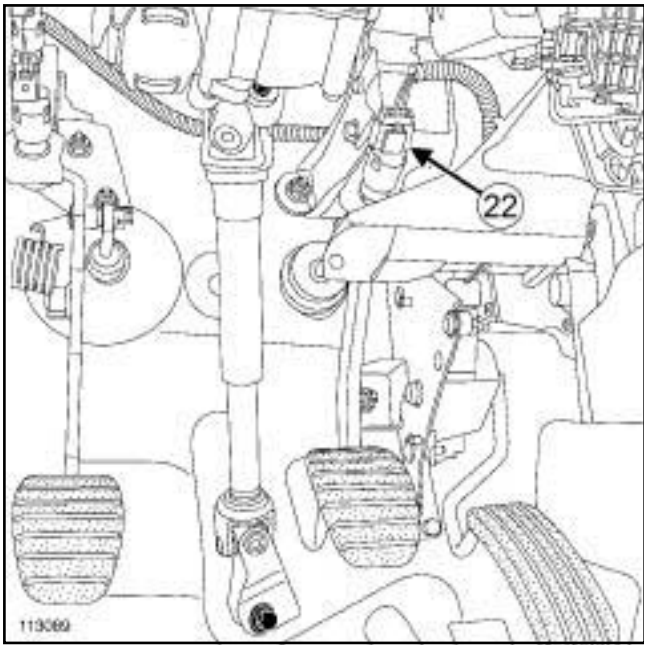
❏ Disconnect the fan assembly control unit connector (**20**) .



113094

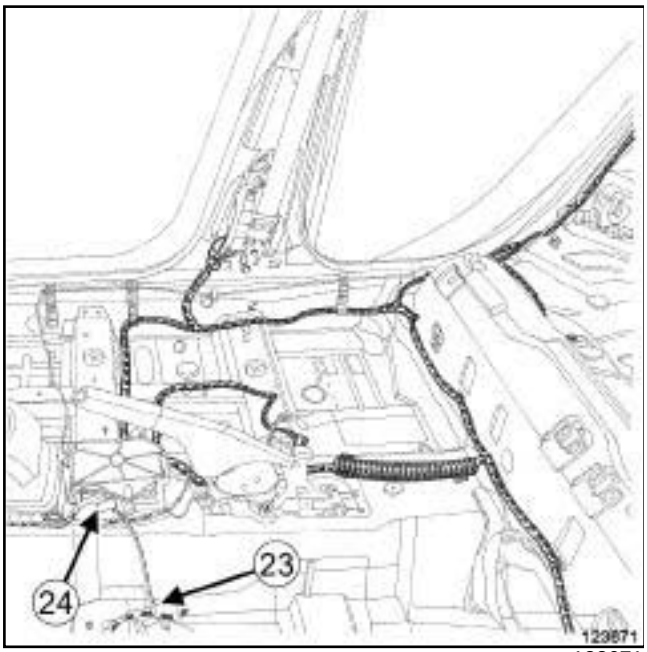
❏ Disconnect the clutch pedal switch connectors (**21**) .

RIGHT-HAND DRIVE



113089

❏ Disconnect the brake light switch connector (**22**) .



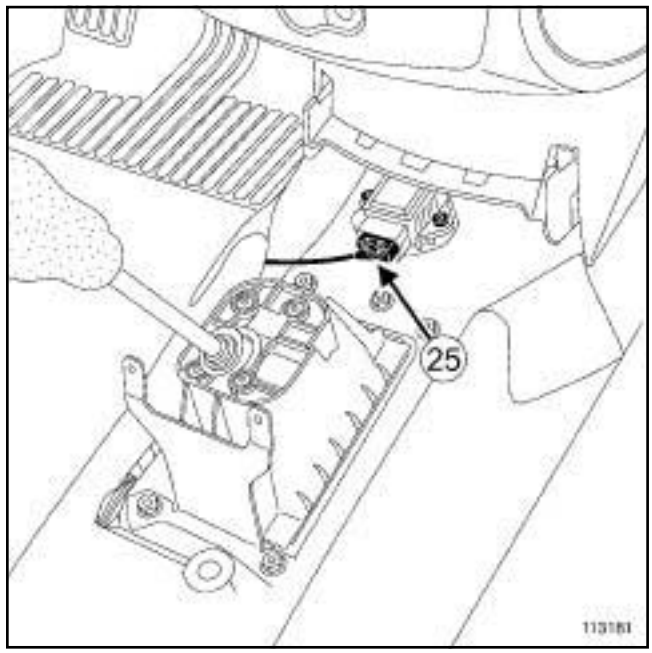
123671

❏ Remove the nut (**23**) .

❏ Disconnect:

- the airbag computer connector (**24**) .
- the earth terminal,
- the handbrake switch.

ELECTRONIC STABILITY PROGRAM

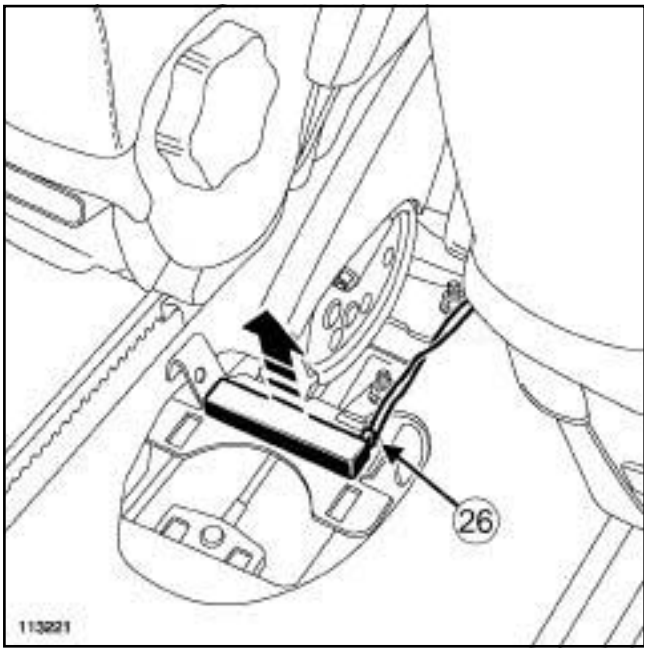


113181

❏ Disconnect the lateral acceleration and yaw sensor connector (**25**) .

RIGHT-HAND DRIVE

VEHICLE WITH CARD



113221

❏ Disconnect the starter aerial connector (**26**) .

❏ Unclip the wiring.

❏ Remove the wiring.

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

❏ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the harness.

❏ Attach the wiring.

VEHICLE WITH CARD

❏ Connect the centre console starter aerial connector.

ELECTRONIC STABILITY PROGRAM

❏ Connect the lateral acceleration and yaw sensor connector.

❏ Connect:

- the earth ***(23)*** ,
- the airbag computer connector,
- the handbrake switch.

❏ Torque tighten the **earth terminal nut (8 Nm)**.

❏ Clip:

- the passenger compartment fuse and relay box.
- the heating resistor relay unit.

❏ Connect:

- the brake light switch connector,
- the clutch pedal sensor connectors,
- the fan assembly control unit connector,
- the heating resistor connector,
- the R 99 connector.

VEHICLE WITH CARD

❏ Connect the electric steering column lock connector.

VEHICLE WITH KEY

❏ Connect:

- the antenna/transponder ring connector,
- the starter switch connector.

❏ Clip the wiring on the steering column.

❏ Connect:

- the electric power assisted steering connectors,

RIGHT-HAND DRIVE

- the R 107 connectors,
- the R 369 connectors,
- the right-hand dashboard cross member earth terminals ***(11)*** in the position marked during removal,
- the radio earth terminal nut on the centre section of the dashboard cross member (27),
- The left-hand dashboard cross member earth terminal ***(15)*** .

❏ Torque tighten the **earth terminal nuts (8 Nm)**.

❏ Refit:

- the additional relay/fuse box,
- the additional relay/fuse box nut.

❏ Reconnect the additional relay/fuse box connectors.

❏ Clip the dashboard wiring harness.

LIGHTS + AUTOMATIC WINDSCREEN WIPER

❏ Connect the R 301 connector.

❏ Connect the R 301 connector.

❏ Clip the dashboard wiring harness on the left-hand A-pillar trim.

PANORAMIC SUNROOF

❏ Connect the R 339 connector.

❏ Clip the dashboard wiring harness on the right-hand A-pillar trim.

❏ Connect:

- the UCH connectors,
- the R 2 connector,
- The R 3 and R 4 connectors.

❏ Refit:

- the bolts for the R 3 and R 4 connectors,
- the protective foam for the R 3 and R 4 connectors.

❏ Clip on the R 3 and R 4 connector mountings.

II - FINAL OPERATION.

❏ Refit the front left-hand section of the centre floor front carpet.

❏ Refit:

- the air conditioning control panel (see **Control panel: Removal - Refitting**) (MR 392, 61A, Heating system),
- the front left-hand door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the tweeters (see **86A**, **Radio**, **Tweeter: Removal - Refitting**, page **86A-13**) ,
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),

VEHICLE WITH CARD

❏ Connect the dashboard starter aerial connector.

❏ Refit:

- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the radio (see **86A**, **Radio**, **Radio: Removal - Refitting**, page **86A-8**) ,
- the glovebox (see **Glovebox: Removal - Refitting**) (MR 393, 57A, Interior equipment),

❏ Refit:

- the display (see **86A**, **Radio**, **Display: Removal - Refitting**, page **86A-18**) ,
- the instrument panel (see **83A**, **Instrument panel**, **Instrument panel: Removal - Refitting**, page **83A-3**) ,
- the steering column switch assembly (see **84A**, **Control - Signals**, **Steering column switch assembly: Removal - Refitting**, page **84A-4**) ,
- the dashboard cover gaiter (see **Dashboard cover gaiter: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 392, 36A, Steering assembly),
- the driver's front airbag (see **88C**, **Air bag and Pretensioners**, **Driver's frontal airbag: Removal - Refitting**, page **88C-22**) .

RIGHT-HAND DRIVE

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❑ Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 88C, Airbags and pretensioners).

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑ Raise the window fully.

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING
To avoid damaging the connectors, consult the disconnection procedures (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Remove the front speaker (see **86A**, **Radio**, **Front speakers: Removal - Refitting**, page **86A-14**) .

LEFT-HAND DRIVE, and DOOR MIRRORS 02 or DOOR MIRRORS 03

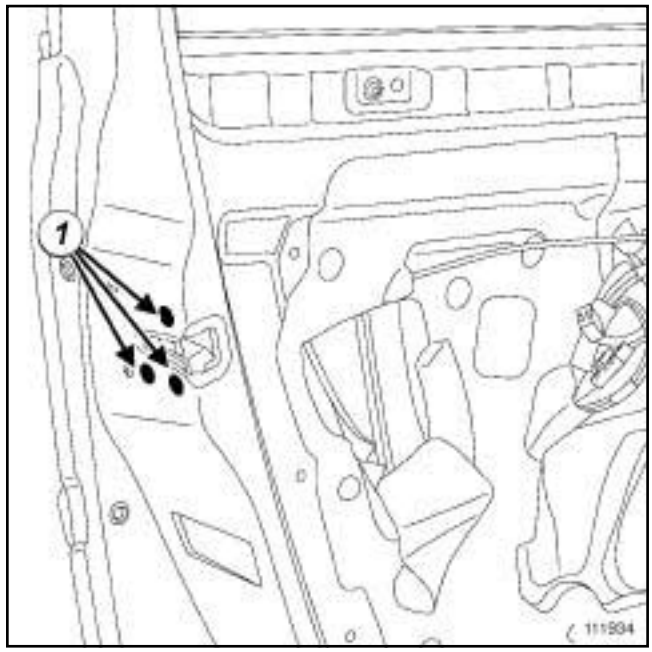
❑ Remove the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

RIGHT-HAND DRIVE

❑ Remove the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

❑ Remove:

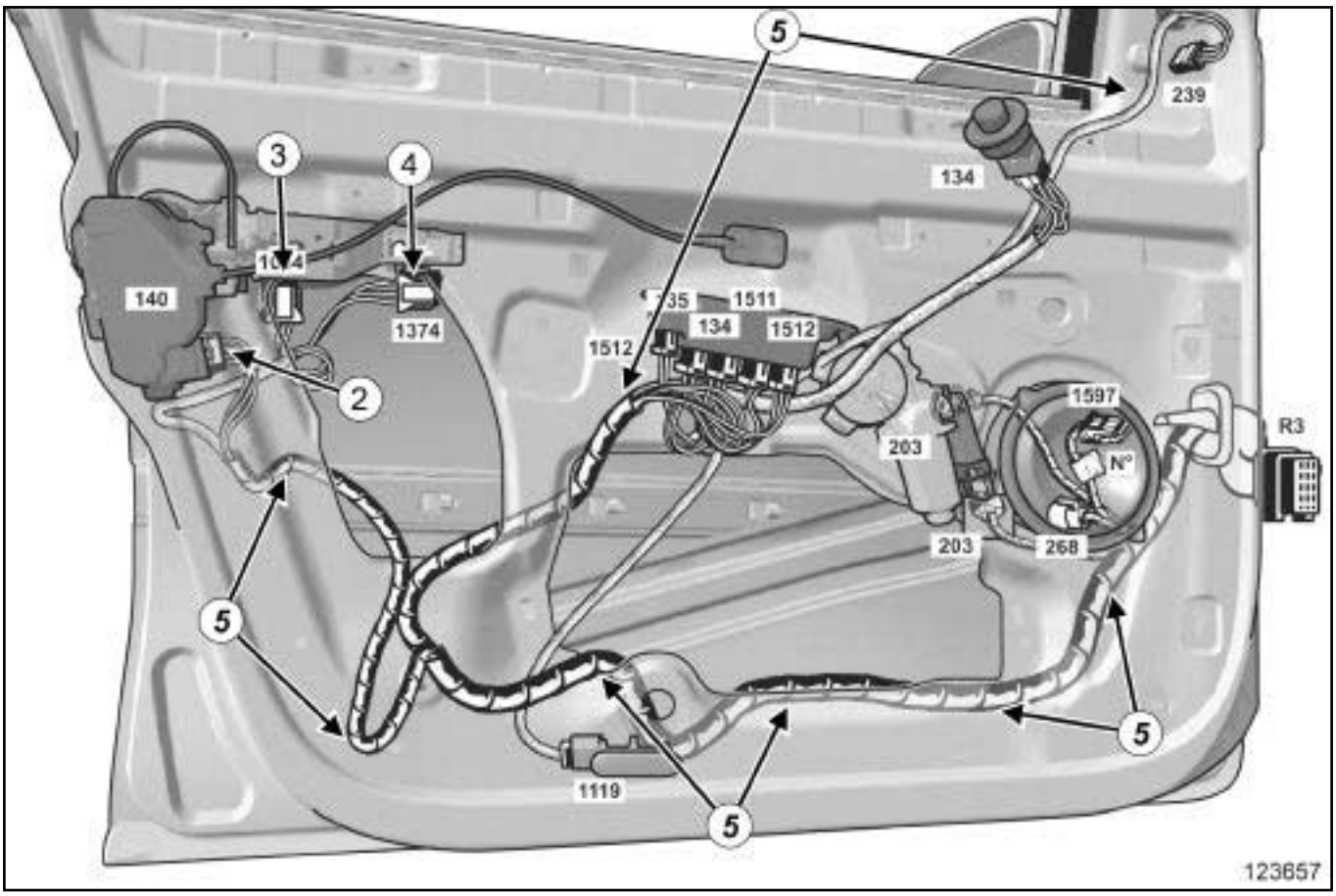
- the side door trim (see **Front side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim),
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the side indicator.



111934

❑ Remove the three door lock bolts (**1**) .

II - REMOVAL OF PART CONCERNED



123657

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

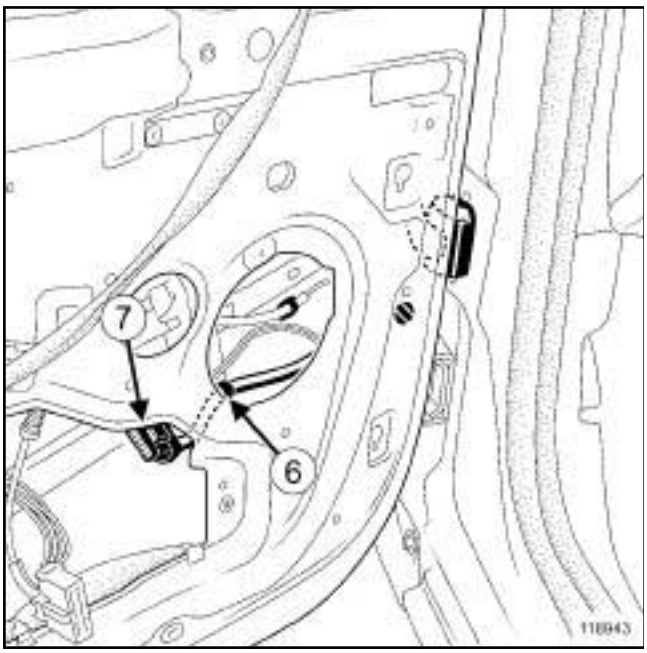
❑ Disconnect the door lock connector (**2**) .

VEHICLE WITH CARD

❑ Disconnect the presence detector connector ***(3)*** .

❑ Disconnect the opening aerial connector ***(4)*** .

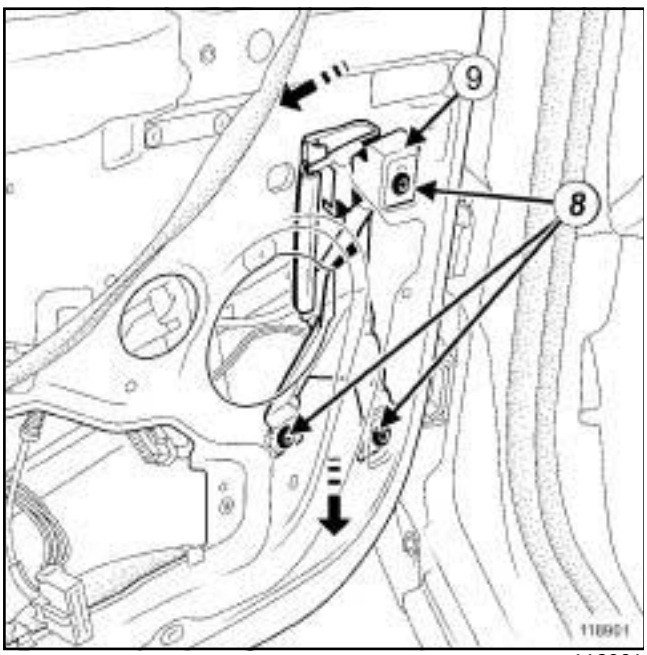
ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL



118943

❏ Remove clip (**6**) .

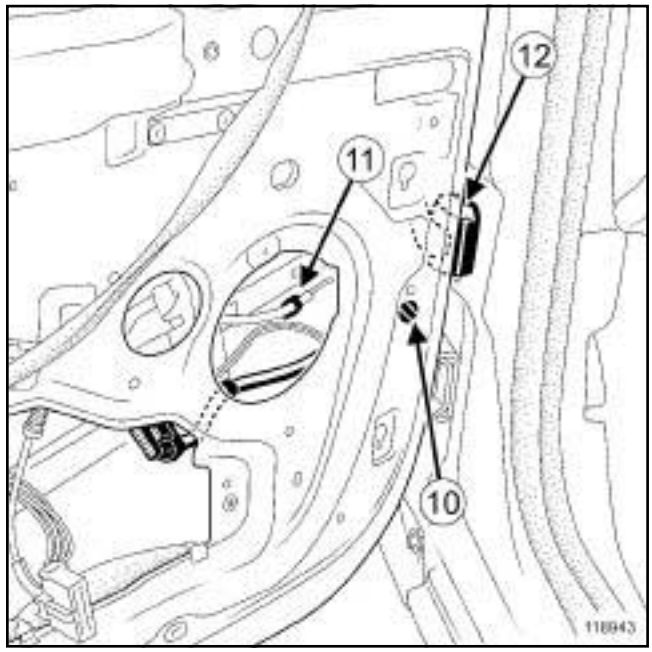
❏ Disconnect the electric window motor connector (**7**) .



118901

❏ Remove:

- The three bolts (**8**) of the front offset frame (**9**) .
- The front offset frame (**9**) , by lowering it, then pivoting it and removing it through the speaker mounting hole.



118943

❏ Remove the clips (**10**) and (**11**) .

❏ Disconnect the door connector (**12**) .

❏ Remove all of the clips ***(5)*** using a pair of unclipping pliers.

❏

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❏ Remove the wiring.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more complete wiring, immobilise the unused connectors (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING PART CONCERNED

❏ Refit the wiring, respecting the original routing.

❏ Clip all the clips into place ***(5)*** .

❏ Refit:

- The front offset frame.
- The three bolts of the front offset frame.

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL

❏ Clip on the clip ***(6)*** .

❏ Connect the electric window motor connector.

VEHICLE WITH CARD

❏ Connect the opening aerial connector.

❏ Connect the presence sensor connector.

❏ Connect the tailgate lock connector.

❏ Connect the door connector ***(12)*** .

❏ Clip on the clips ***(11)*** and ***(10)*** .

❏ Refit:

- the three door lock bolts,
- the side indicator,
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the side door trim (see **Front side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim).

RIGHT-HAND DRIVE

❏ Refit the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment).

LEFT-HAND DRIVE, and DOOR MIRRORS 02 or DOOR MIRRORS 03

❏ Refit the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment).

❏ Refit the front speaker (see **86A**, **Radio**, **Front speakers: Removal - Refitting**, page **86A-14**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Raise the window fully.

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING
To avoid damaging the connectors, consult the disconnection procedures (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove the front speaker (see **86A**, **Radio**, **Front speakers: Removal - Refitting**, page **86A-14**) .

LEFT-HAND DRIVE

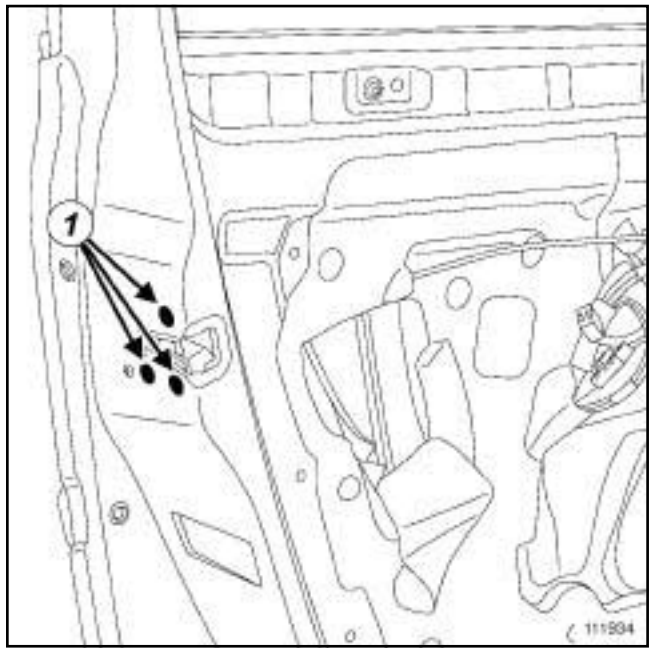
❏ Remove the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

RIGHT-HAND DRIVE, and DOOR MIRRORS 02 or DOOR MIRRORS 03

❏ Remove the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

❏ Remove:

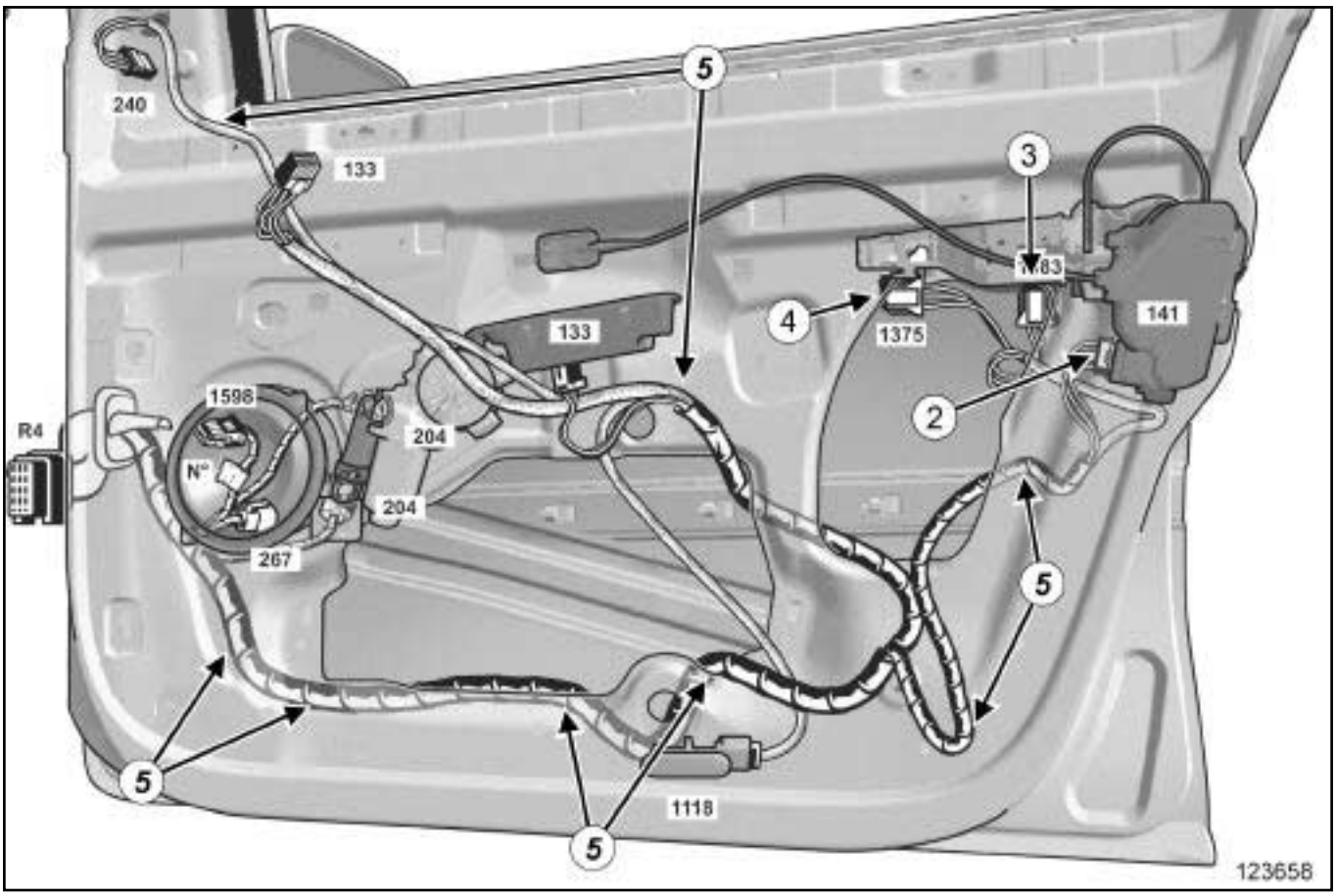
- the side door trim (see **Front side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim),
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the side indicator.



111934

❏ Remove the three door lock bolts (**1**) .

II - REMOVAL OF PART CONCERNED



123658

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

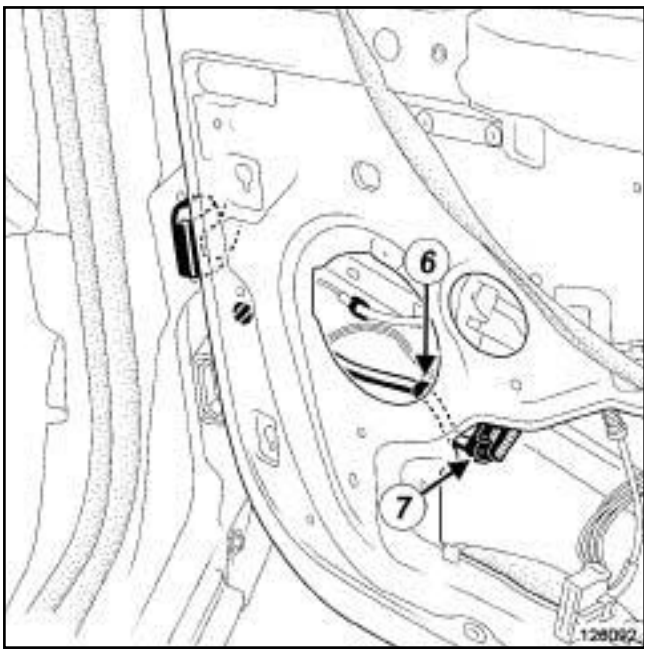
❑ Disconnect the door lock connector (**2**) .

VEHICLE WITH CARD

❑ Disconnect the presence detector connector ***(3)*** .

❑ Disconnect the opening aerial connector ***(4)*** .

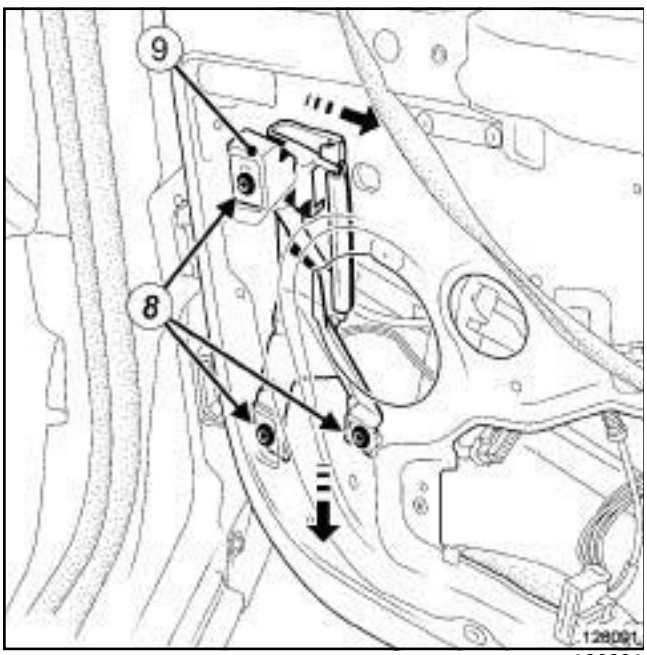
ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL



126092

❏ Remove clip (**6**) .

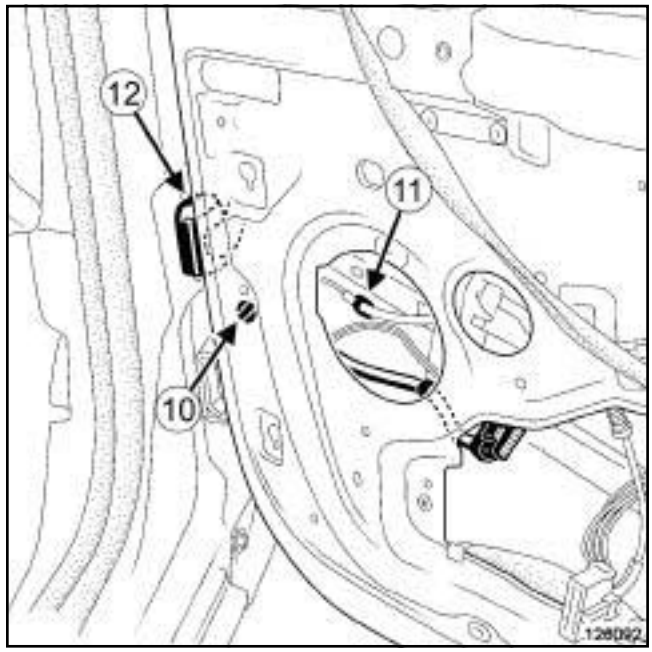
❏ Disconnect the electric window motor connector (**7**) .



126091

❏ Remove:

- The three bolts (**8**) of the front offset frame (**9**) .
- The front offset frame (**9**) , by lowering it, then pivoting it and removing it through the speaker mounting hole.



126092

❏ Remove the clips (**10**) and (**11**) .

❏ Disconnect the door connector (**12**) .

❏ Remove all of the clips ***(5)*** using a pair of unclipping pliers.

❏

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

❏ Remove the wiring.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more complete wiring, immobilise the unused connectors (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING PART CONCERNED

❏ Refit the wiring, respecting the original routing.

❏ Clip all the clips into place ***(5)*** .

❏ Refit:

- The front offset frame.
- The three bolts of the front offset frame.

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC FRONT WINDOW or PASSENGER ELECTRIC ONE-TOUCH WINDOW CONTROL

❏ Clip on the clip ***(6)*** .

❏ Connect the electric window motor connector.

VEHICLE WITH CARD

❏ Connect the opening aerial connector.

❏ Connect the presence sensor connector.

❏ Connect the tailgate lock connector.

❏ Connect the door connector ***(12)*** .

❏ Clip on the clips ***(10)*** and ***(11)*** .

❏ Refit:

- the three door lock bolts,
- the side indicator,
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the side door trim (see **Front side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim).

RIGHT-HAND DRIVE, and DOOR MIRRORS 02 or DOOR MIRRORS 03

❏ Refit the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

LEFT-HAND DRIVE

❏ Refit the door mirror (see **Door mirror: Removal - Refitting**) (MR 393, 56A, Exterior equipment),

❏ Refit the front speaker (see **86A**, **Radio**, **Front speakers: Removal - Refitting**, page **86A-14**) .

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

B85 or K85

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Raise the window fully.

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING

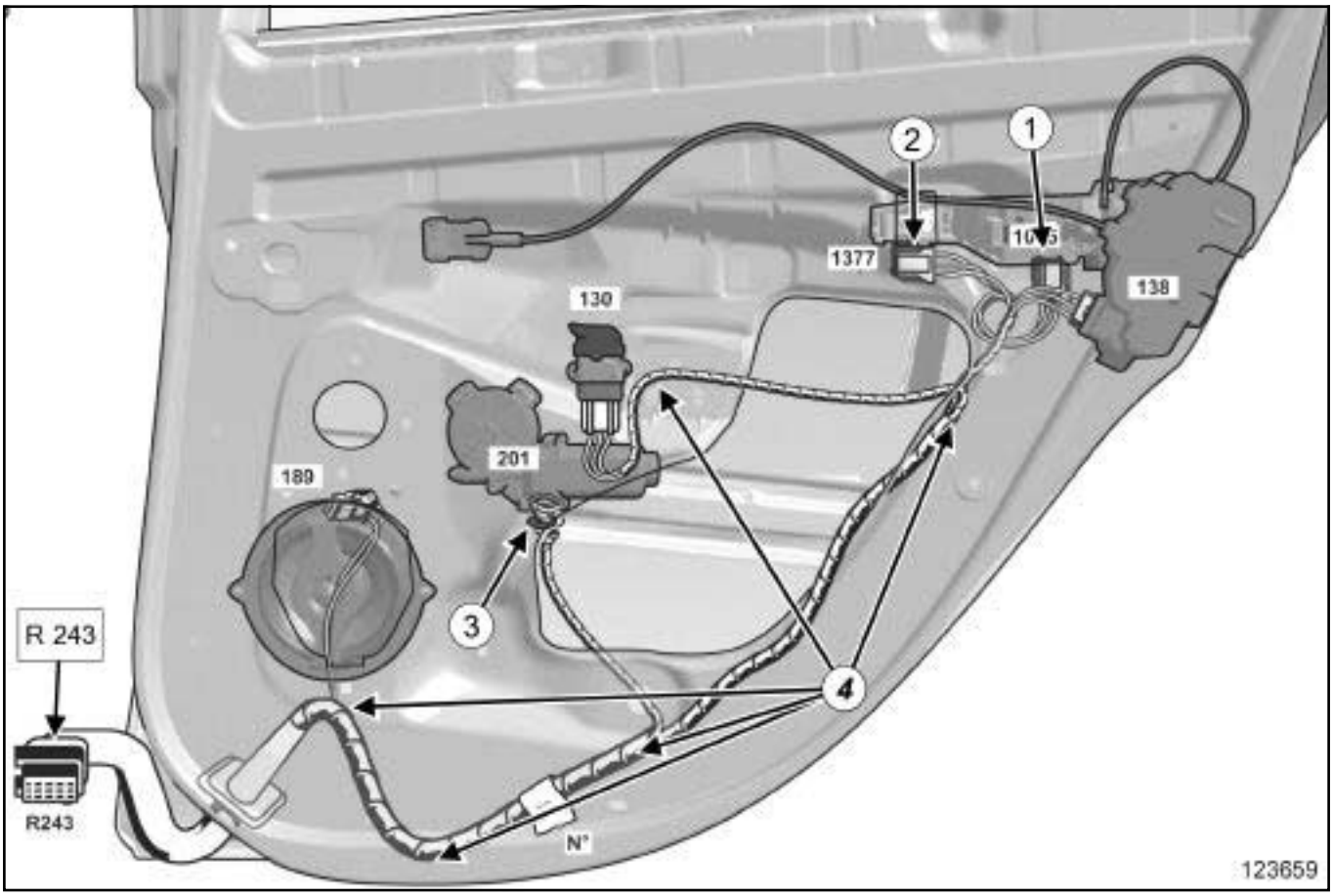
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove:

- the rear side door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim),
- the rear speaker (see **86A**, **Radio**, **Rear speakers: Removal - Refitting**, page **86A-15**) .
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the rear side door lock (see **Rear side door lock: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms).

B85 or K85

II - OPERATION FOR REMOVAL OF PART CONCERNED



123659

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

❑ Disconnect R 243 connector which connects the rear left-hand wiring/right-hand rear door.

VEHICLE WITH CARD

❑ Disconnect:

- the presence detector connector ***(1)*** ,
- the opening aerial connector ***(2)*** .

ELECTRIC REAR WINDOW

❑ Disconnect the ***(3)*** rear side door electric window winder mechanism connector.

❑ Unclip the rear side door wiring at ***(4)*** .

❑ Remove the rear side door wiring.

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

B85 or K85

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the rear side door wiring.

❏ Clip the rear side door wiring into place ***(4)*** .

ELECTRIC REAR WINDOW

❏ Connect the rear side door electric window mechanism connector.

VEHICLE WITH CARD

❏ Connect:

- the opening aerial connector,
- the presence detector connector.

❏ Connect the R 243 connector to connect the rear left-hand wiring / right-hand rear door wiring.

III - FINAL OPERATION.

❏ Refit:

- the rear side door lock (see **Rear side door lock: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms),
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the rear speaker (see **86A**, **Radio**, **Rear speakers: Removal - Refitting**, page **86A-15**) .
- the rear side door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

Rear left-hand side door wiring: Removal - Refitting

B85 or K85

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Raise the window fully.

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING

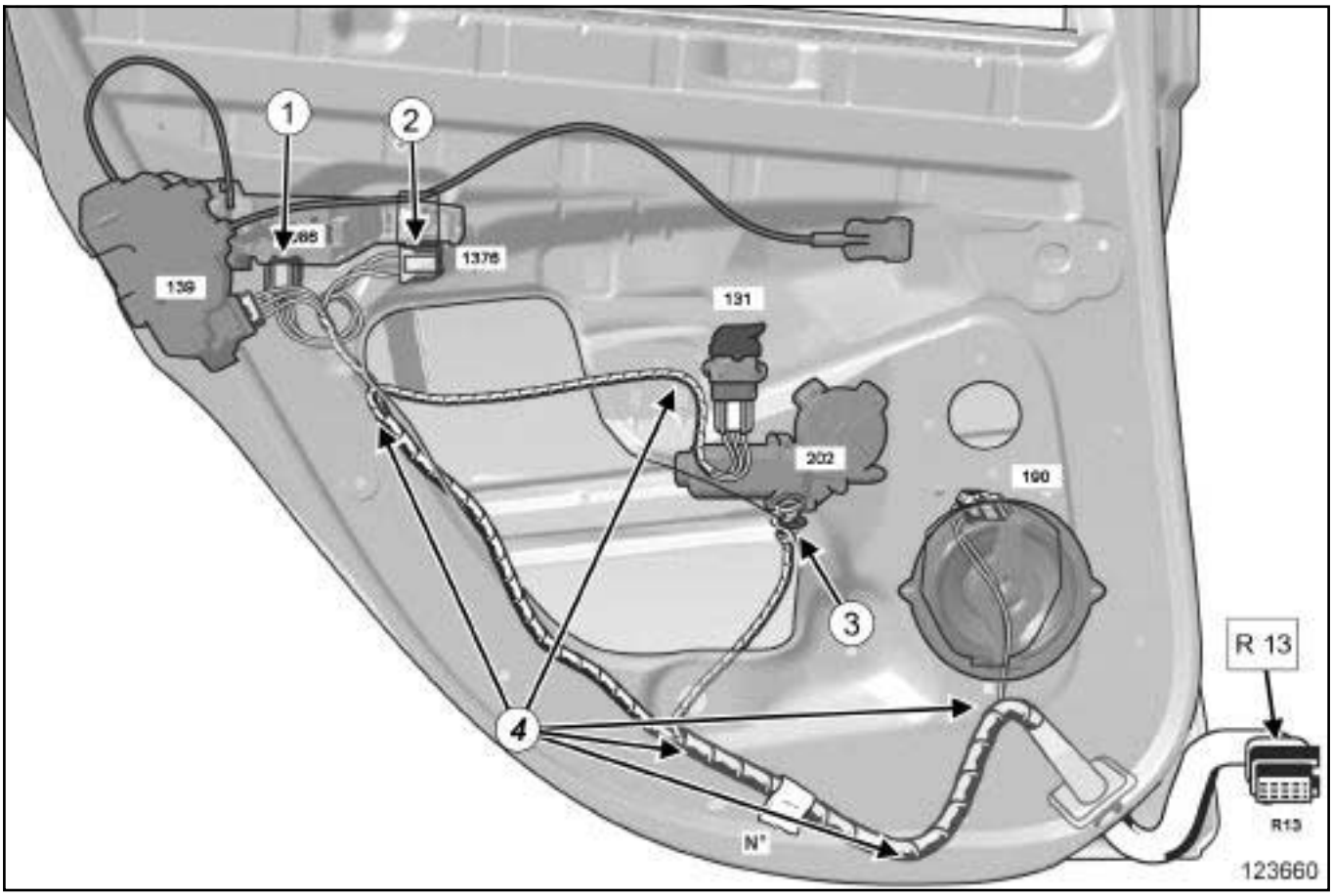
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove:

- the rear side door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim),
- the rear speaker (see **86A**, **Radio**, **Rear speakers: Removal - Refitting**, page **86A-15**) ,
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the rear side door lock (see **Rear side door lock: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms).

B85 or K85

II - OPERATION FOR REMOVAL OF PART CONCERNED



123660

❑

WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

❑ Disconnect the R 13 connector for connection of rear left-hand wiring/left-hand rear door.

VEHICLE WITH CARD

❑ Disconnect:

- the presence detector connector ***(1)*** ,
- the opening aerial connector ***(2)*** .

ELECTRIC REAR WINDOW

❑ the ***(3)*** rear side door electric window winder mechanism connector.

❑ Unclip the rear side door wiring in ***(4)*** .

❑ Remove the rear side door wiring.

WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

B85 or K85

REFITTING

I - REFITTING PREPARATION OPERATION

❏ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the rear side door wiring.

❏ Clip on the rear side door wiring ***(4)*** .

ELECTRIC REAR WINDOW

❏ Connect the rear side door electric window winder mechanism connector.

VEHICLE WITH CARD

❏ Connect:

- the opening aerial connector,
- the presence detector connector.

❏ Connect the rear left-hand wiring/left rear door R 13 connector.

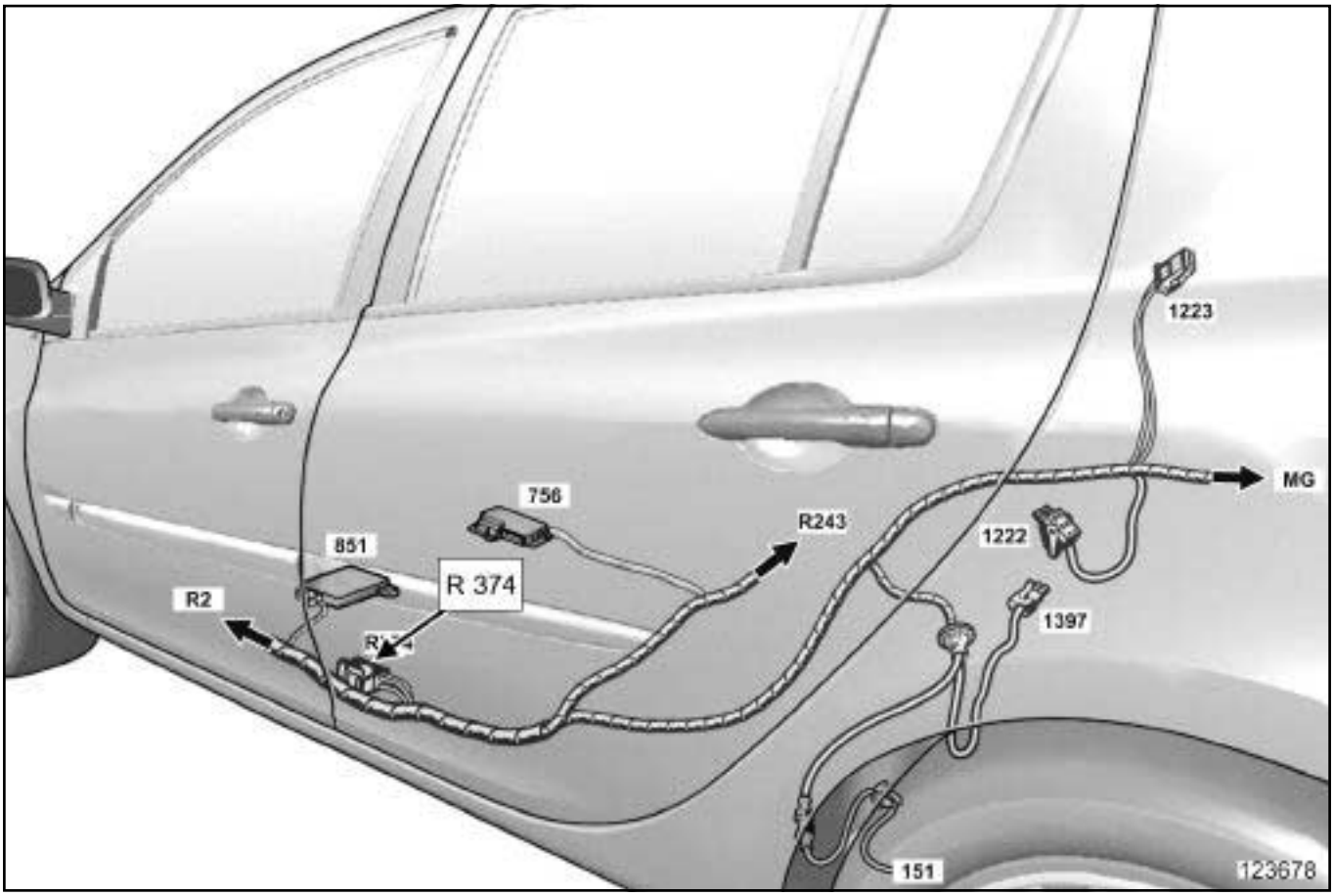
III - FINAL OPERATION.

❏ Refit:

- the rear side door lock (see **Rear side door lock: Removal - Refitting**) (MR 393, 51A, Side opening element mechanisms).
- the door sealing film (see **Door sealing film: Removal - Refitting**) (MR 393, 65A, Opening element sealing),
- the rear speaker (see **86A**, **Radio**, **Rear speakers: Removal - Refitting**, page **86A-15**) ,
- the rear side door trim (see **Rear side door trim: Removal - Refitting**) (MR 393, 72A, Side opening element trim),

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

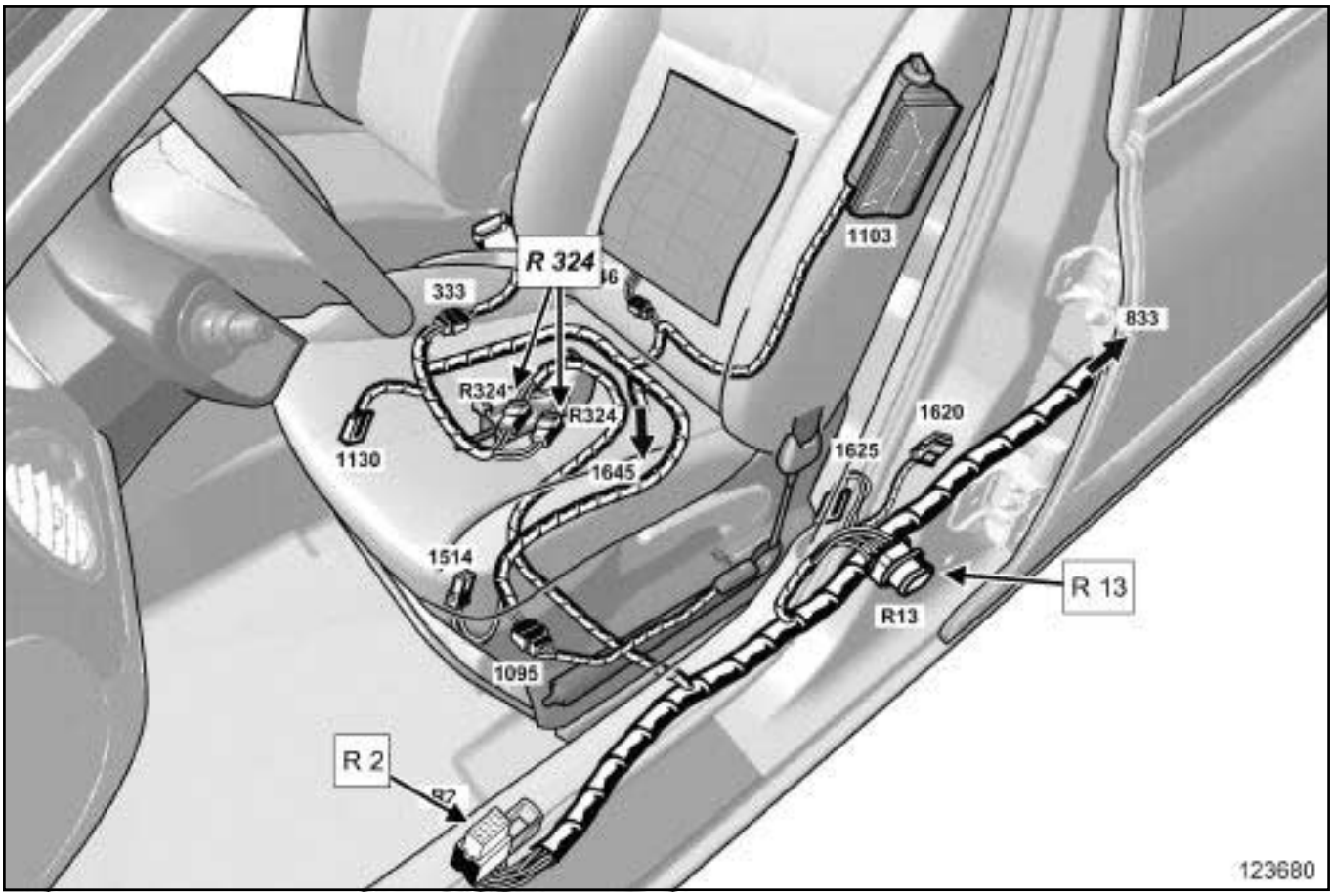
I - LOCATION OF CONNECTORS



123678

❑ R 374 connectors (left-hand rear wiring/front wiring connection).

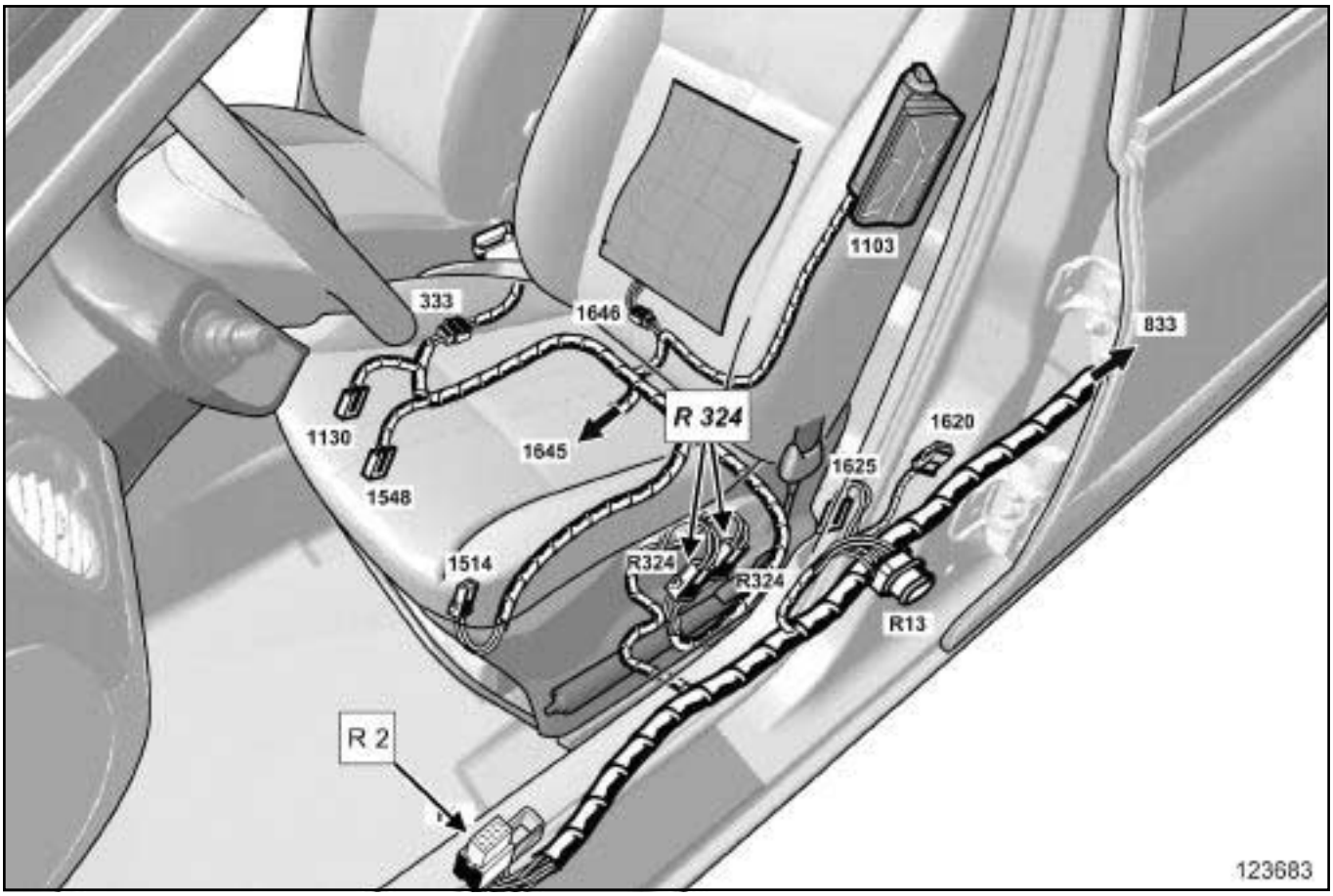
B85 or K85



123680

- R 2 connector (left-hand rear wiring/dashboard wiring connection).
- R 13 connector (left-hand rear wiring/left-hand rear door wiring connection).
- R 324 connector (left-hand rear wiring/left-hand front seat electrical function wiring connection).

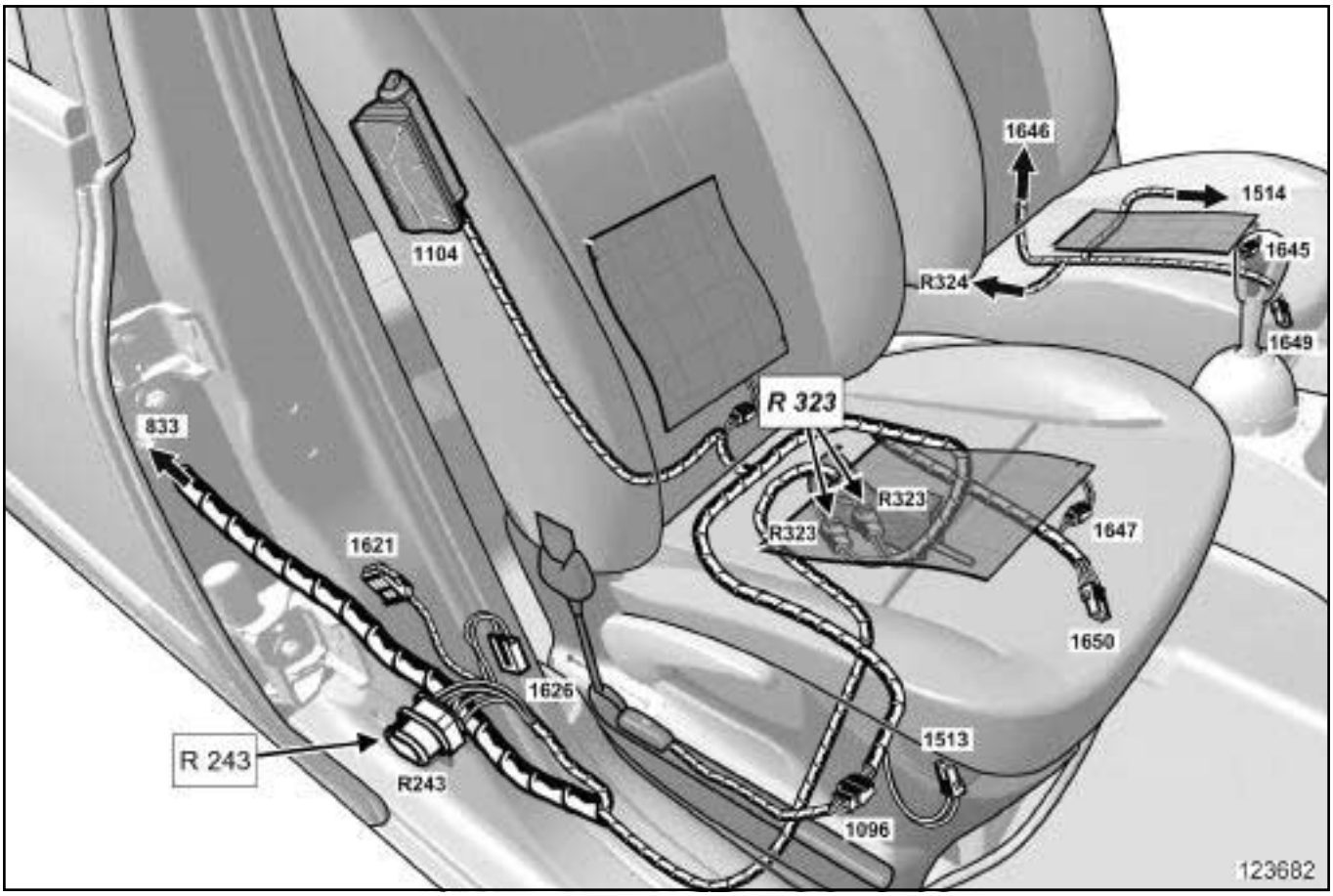
C85 or S85



123683

- R 2 connector (left-hand rear wiring/dashboard wiring connection).
- R 324 connector (left-hand rear wiring/left-hand front seat electrical function wiring connection).

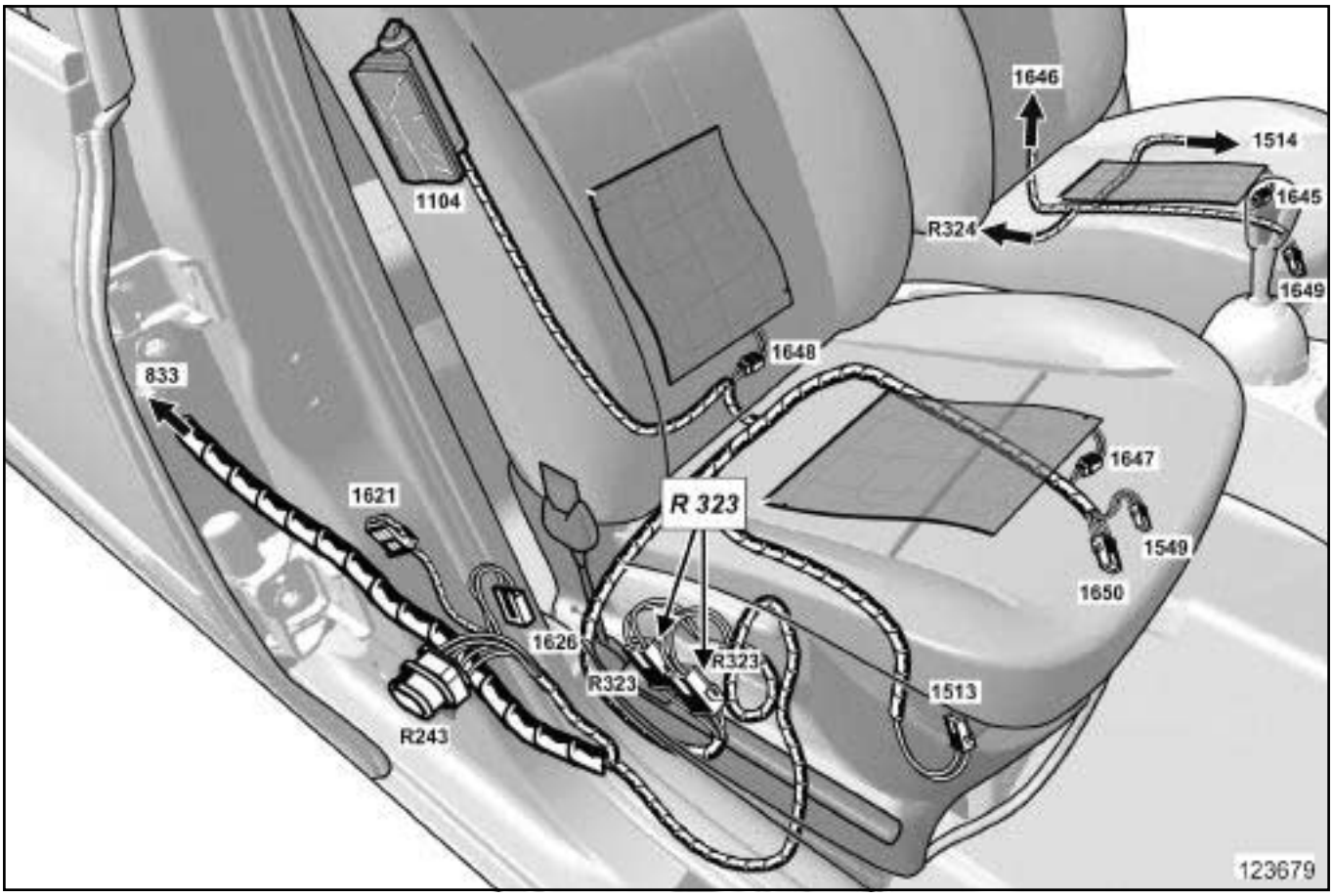
B85 or K85



123682

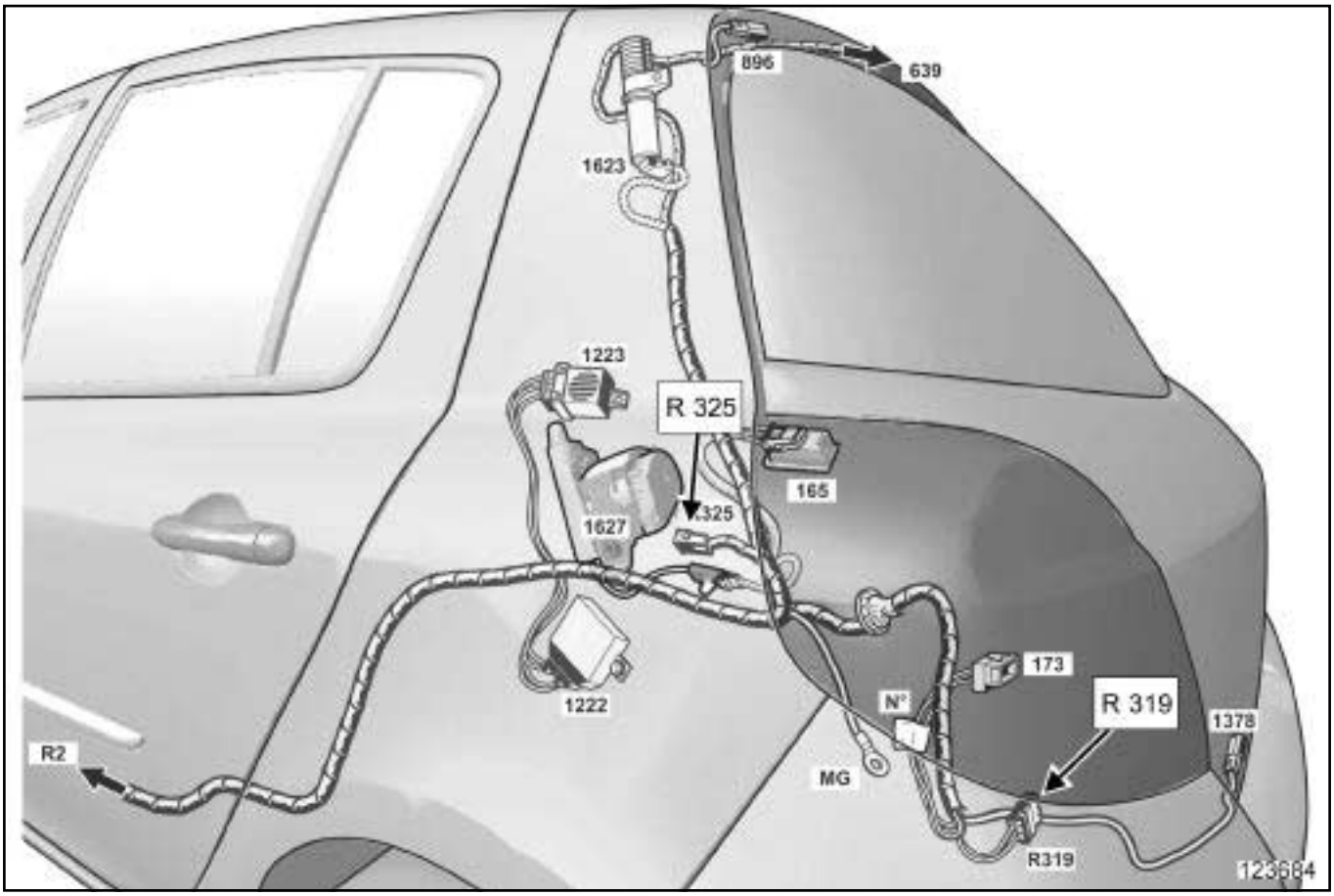
- R 243 connector (left-hand rear wiring/right-hand rear door wiring).
- R 323 connector (left-hand rear wiring/right-hand front seat electrical functions wiring connection).

C85 or S85



123679

❑ R 323 connector (left-hand rear wiring/right-hand front seat electrical functions wiring connection).



123684

❑ R 319 connector (left-hand rear wiring/rear bumper wiring connection).

❑ R 325 connector (left-hand rear wiring/second fitting alarm wiring).

II - ACCESS TO CONNECTORS

❑

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Switch off the ignition.

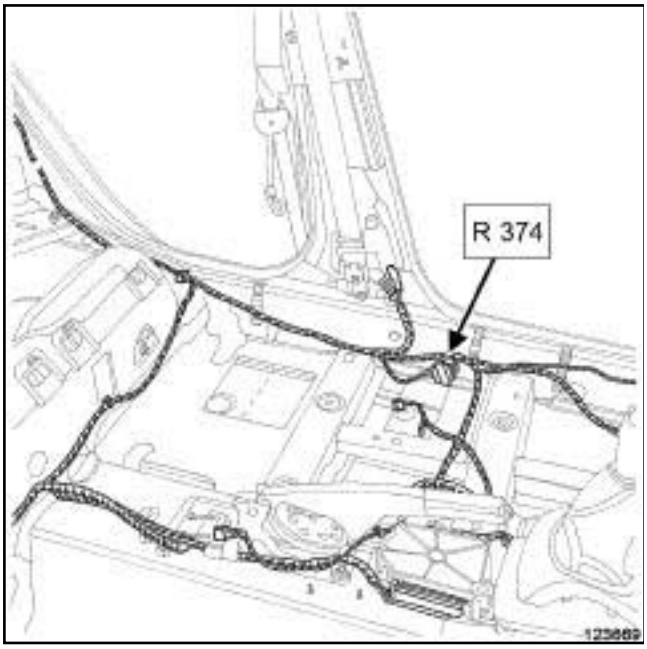
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

1 - Access to the R 374 connectors

❑ Remove the left-hand front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❑ Partially remove the front centre floor carpet,

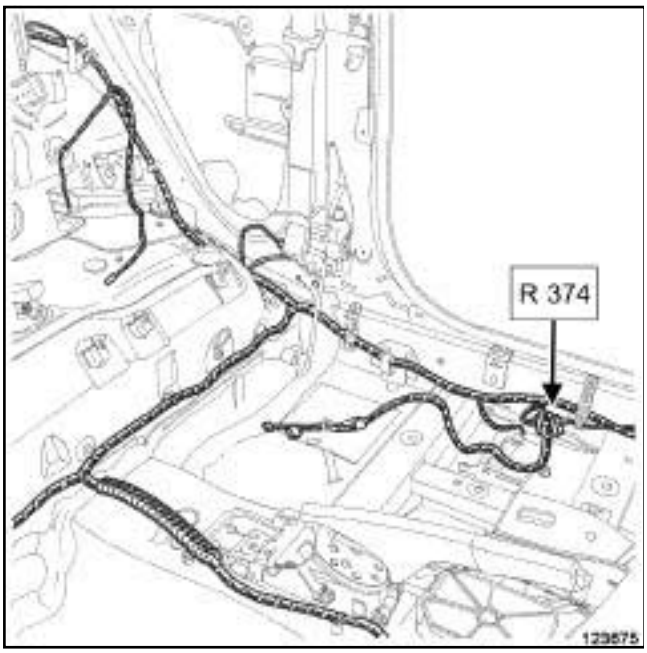
B85 or K85



123669

❏ Disconnect the R 374 connector.

C85 or S85



123675

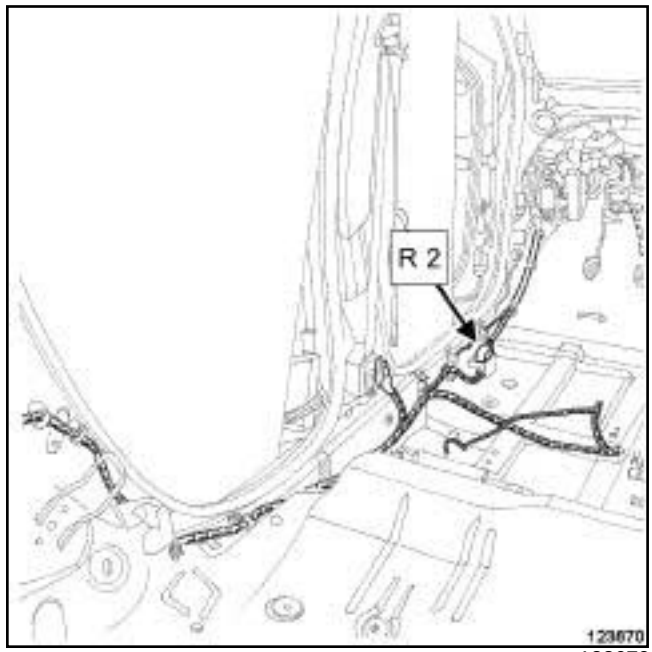
❏ Disconnect the R 374 connector.

2 - Access to the R 2 connector

❏ Remove the left-hand front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❏ Partially remove the front centre floor carpet,

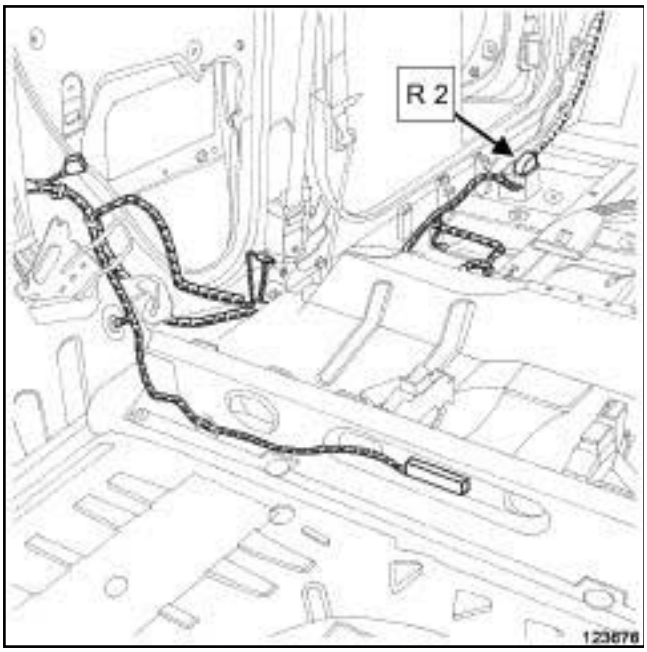
B85 or K85



123670

❏ Disconnect the R 2 connector.

C85 or S85

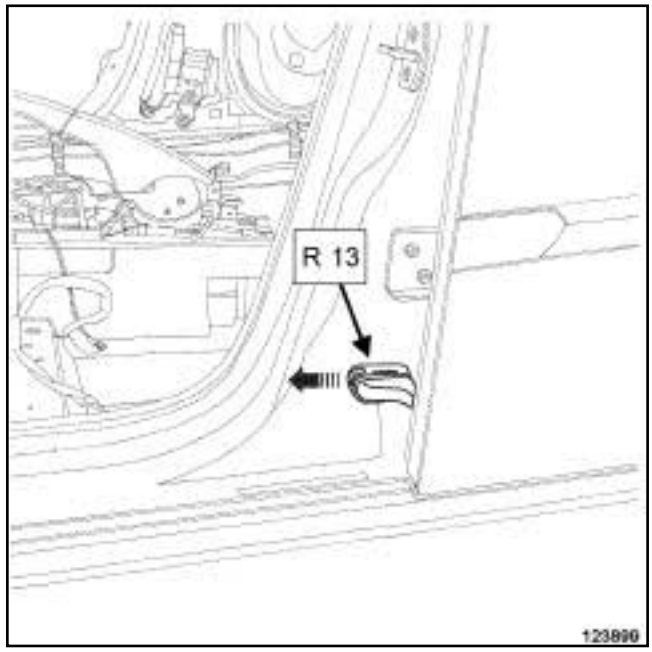


123676

❏ Disconnect the R 2 connector.

3 - Access to the R 13 connector

B85 or K85

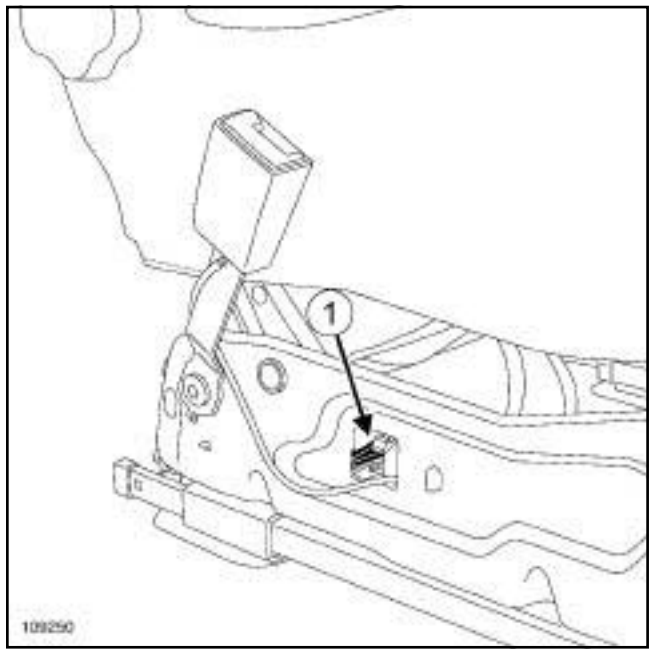


123899

❏ Disconnect the R 13 connector.

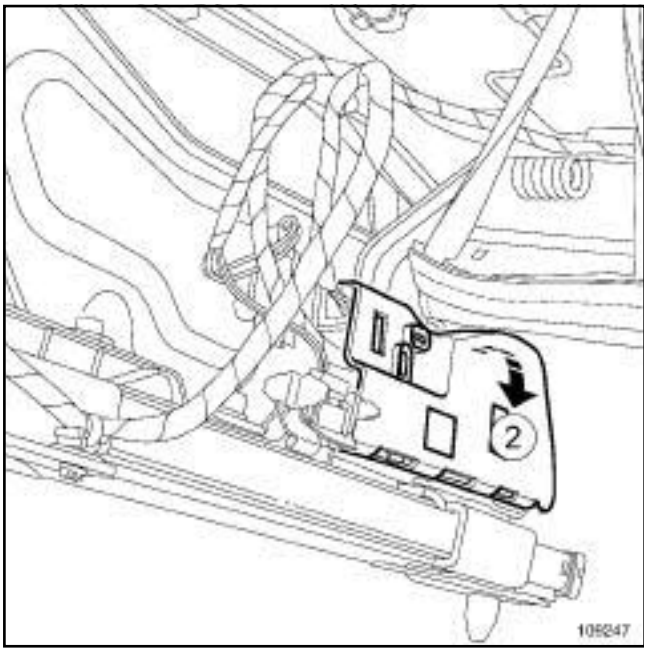
4 - Access to the R 324 connectors

B85 or K85



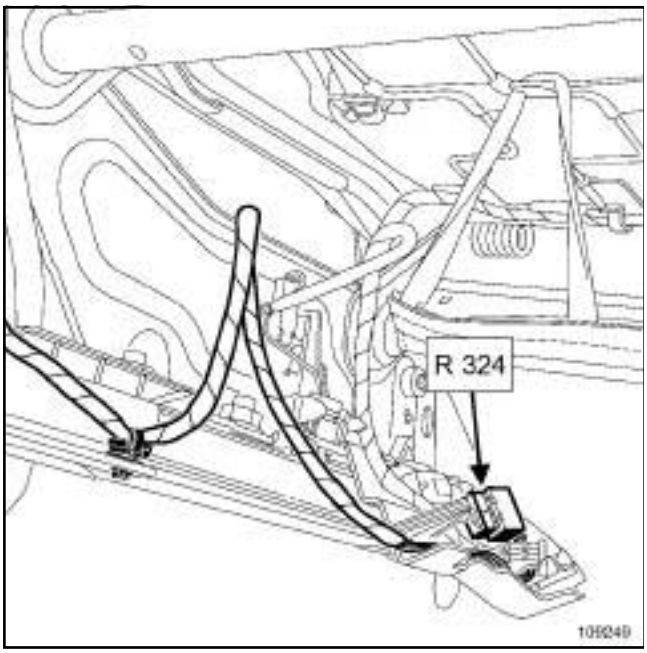
109250

❏ Unfasten clip (**1**) .



109247

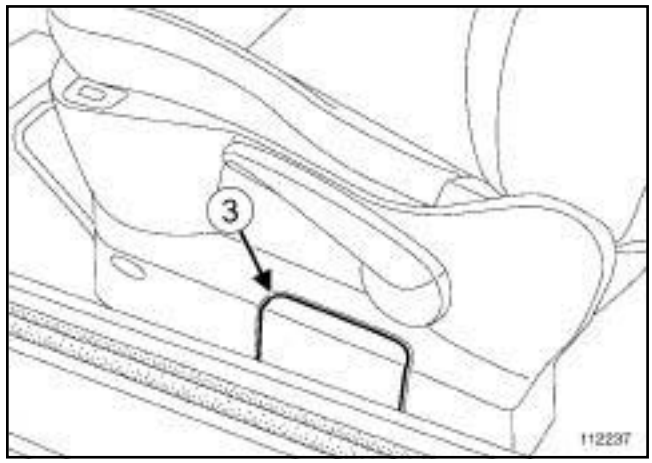
❏ Open the connector access flap (**2**) .



109249

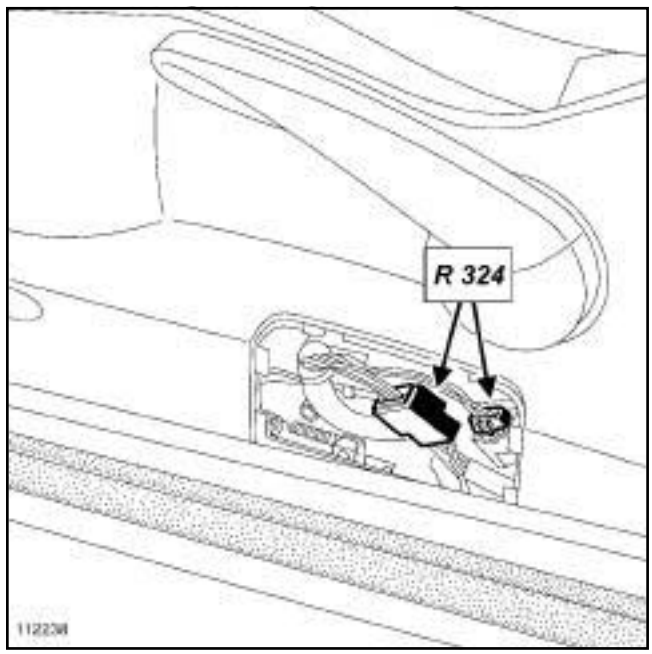
❏ Disconnect the R 324 connector.

C85 or S85



112237

❏ Remove the connectors access flap (**3**) .

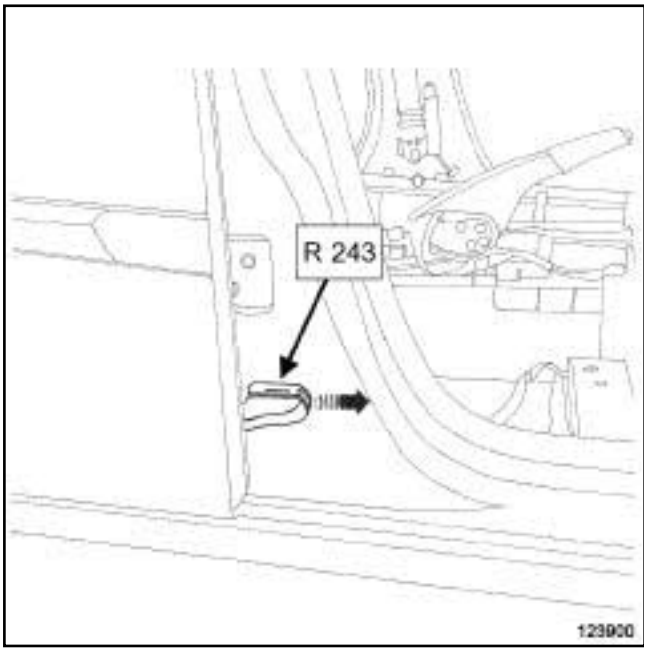


112238

❏ Disconnect the R 324 connectors.

5 - Access to the R 243 connector

B85 or K85

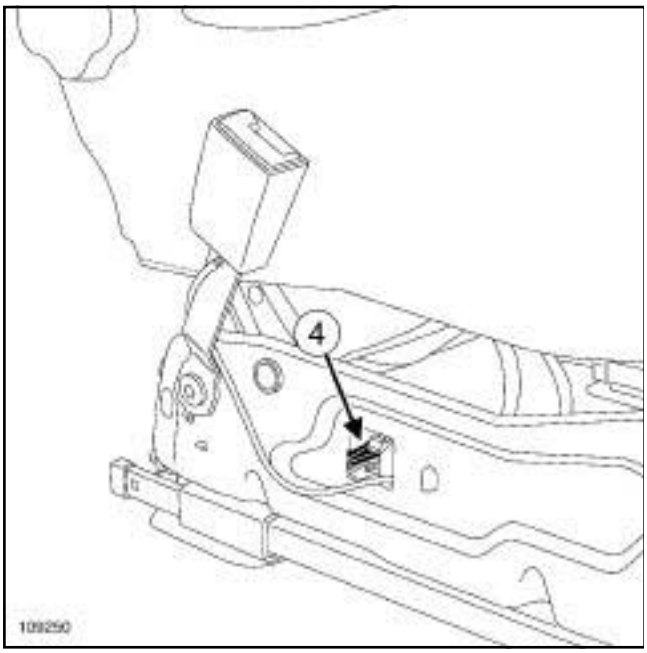


123900

❏ Disconnect the R 243 connector.

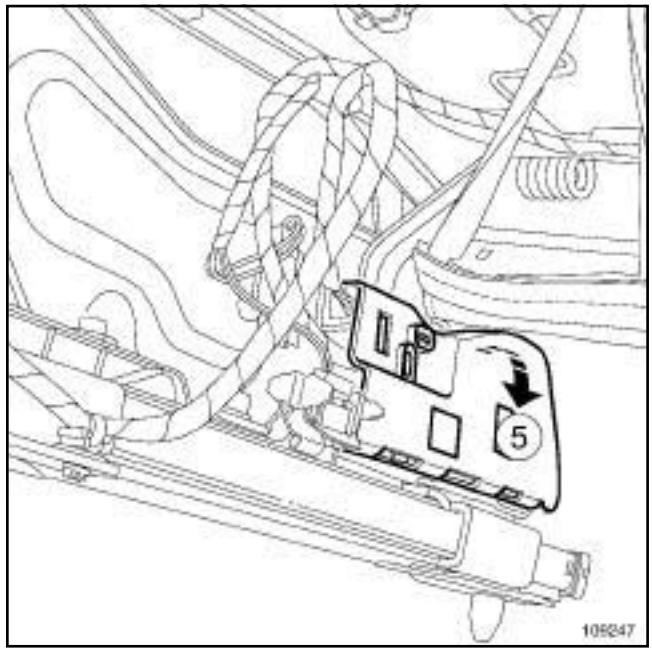
6 - Access to the R 323 connectors

B85 or K85



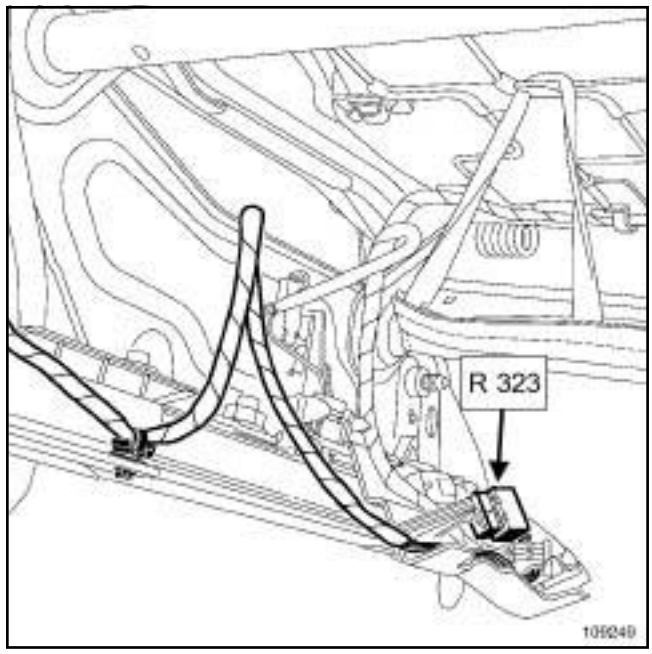
109250

❏ Unfasten clip (**4**) .



109247

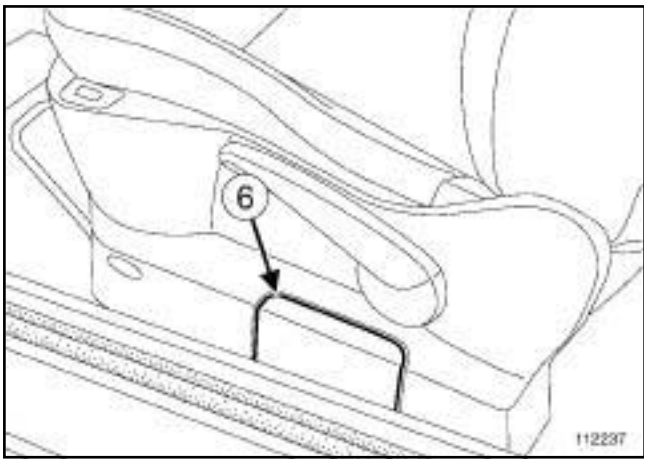
❏ Open the connector access flap (**5**) .



109249

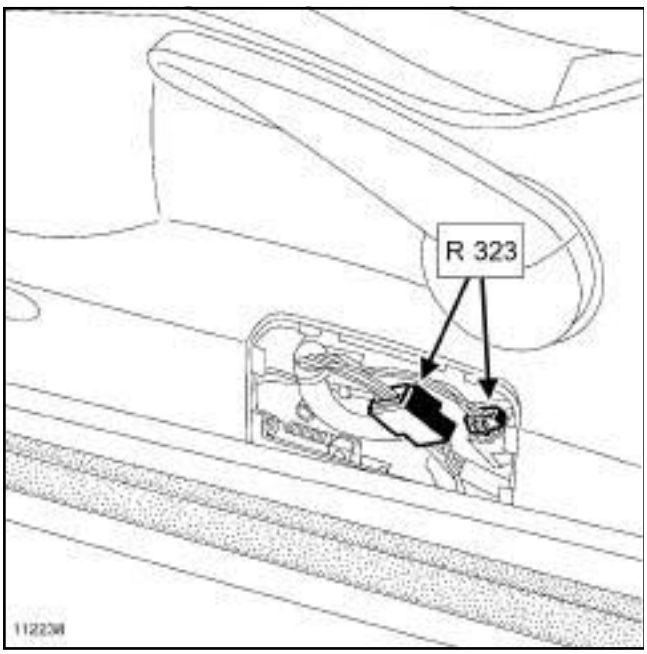
❏ Disconnect the R 323 connector.

C85 or S85



112237

❑ Remove the connectors access flap (**6**) .

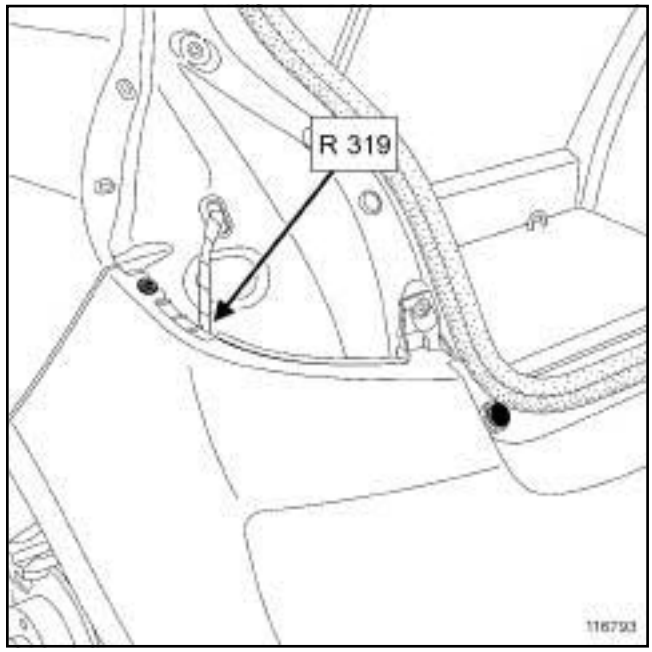


112238

❑ Disconnect the R 323 connectors.

7 - Access to the R 319 connector

❑ Remove the rear light on the left rear wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .



116793

❑ Disconnect the R 319 connector.

8 - Access to the R 325 connector

B85 or K85

❑ Remove:

- the left-hand rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear left-hand wheel arch liner (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).



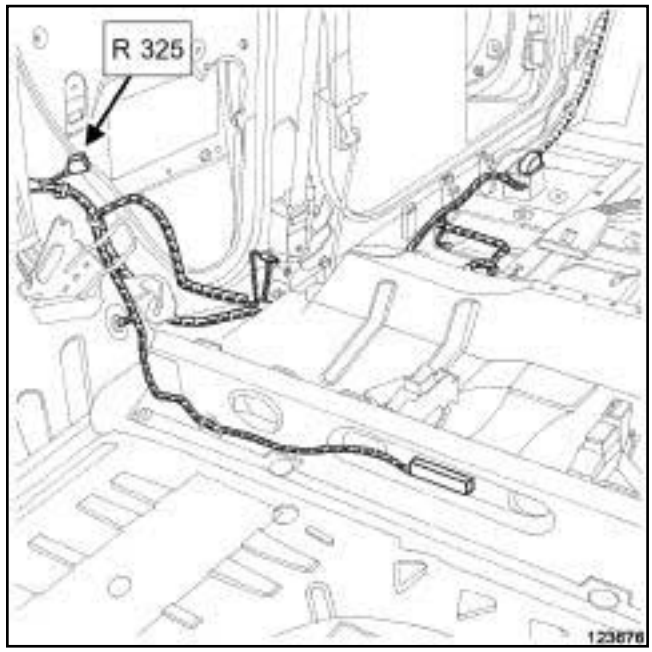
123902

❑ Disconnect the R 325 connector.

C85 or S85

❑ Remove:

- the left-hand rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear left-hand wheel arch liner (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).



123676

❑ Disconnect the R 325 connector.

B85 or K85

Equipment required
Diagnostic tool

Tightening torques ▽	
earth terminal nuts	**8 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

IMPORTANT
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❏ Lock the airbag computer using the **Diagnostic tool** (see **MR 394 Electricity, 88C, Airbags and pretensioners).**

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING
To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove:

- the front seats (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),
- the rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seat base: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the quarter panel trims (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the wheel arch trims (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front door sill inner trims (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear door sill trims (see **Rear door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the rear centre floor carpet (see **Centre floor rear carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front centre floor carpet (see **Centre floor front carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre floor lateral soundproofing (see **Centre floor side soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the centre floor rear soundproofing (see **Centre floor rear soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),

B85 or K85

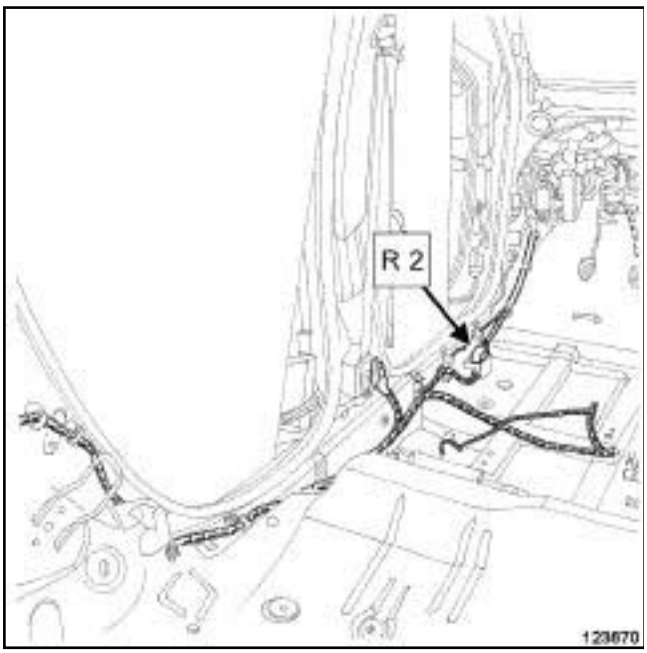
- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

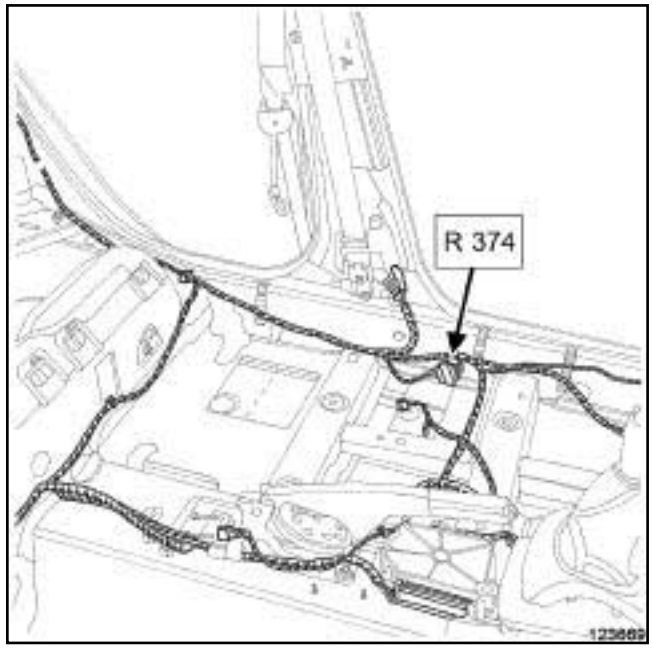
WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



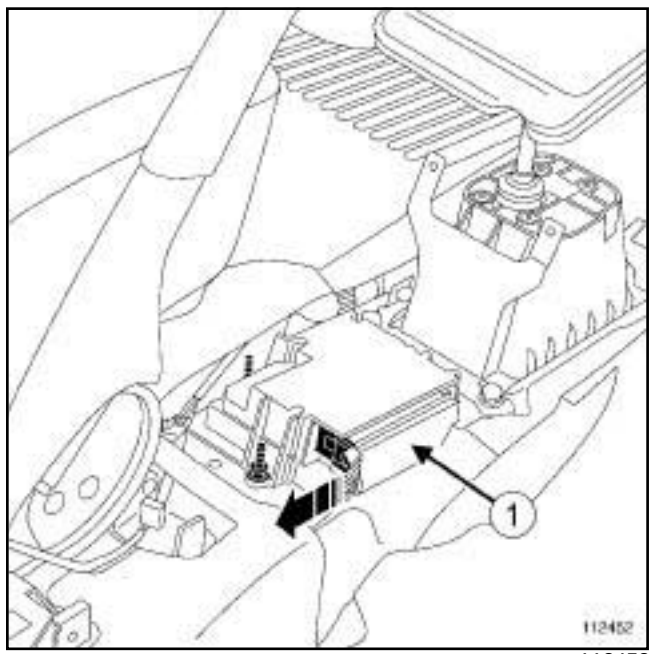
123670

❑ Disconnect the R 2 connector.



123669

❑ Disconnect the R 374 connector.

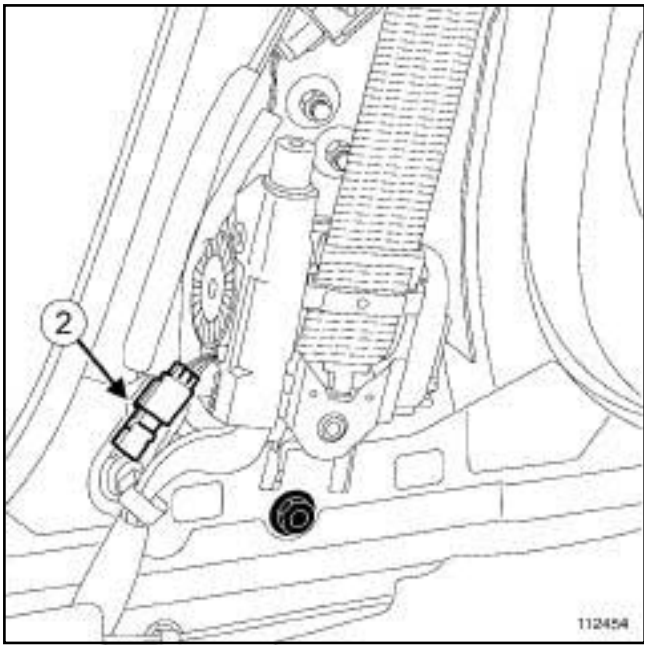


112452

❑ Unclip the lock from the airbag computer connector.

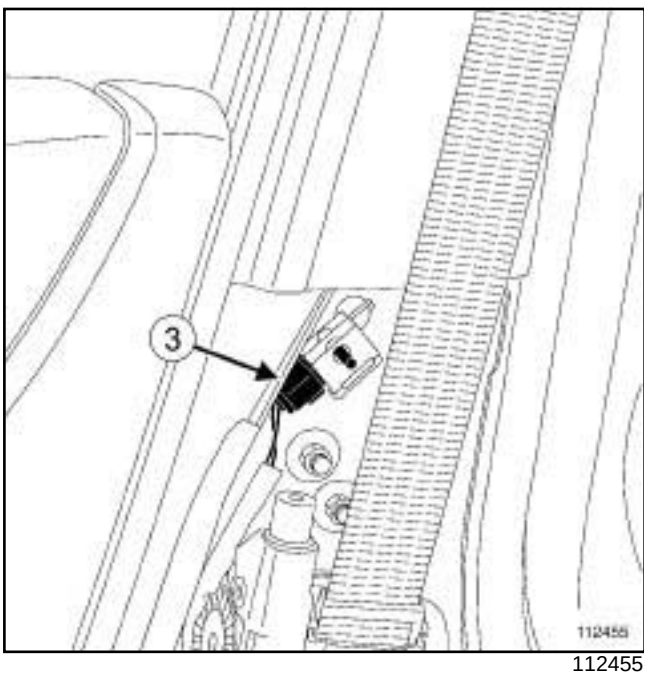
❑ Disconnect the (**1**) airbag computer connector.

B85 or K85



112454

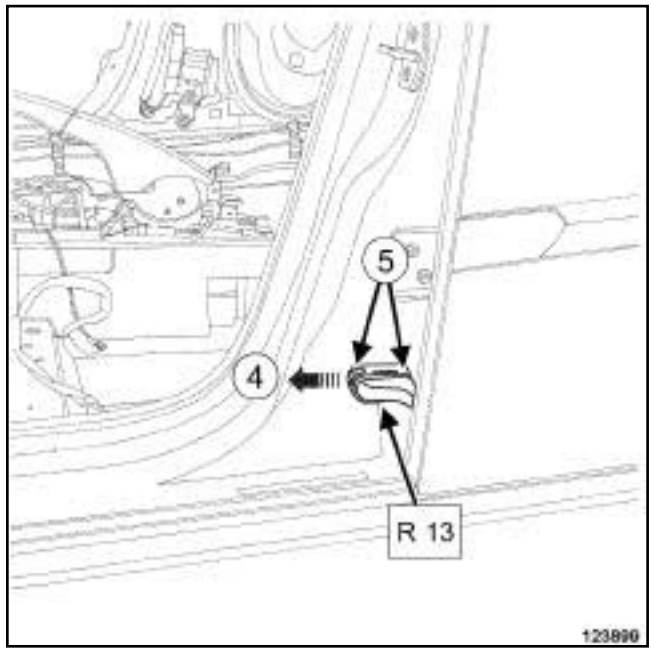
❏ Disconnect the connector (**2**) from the front right-hand and left-hand pyrotechnic inertia reel.



112455

❏ Disconnect the connector (**3**) from the right-hand and left-hand impact sensor.

LEFT-HAND DRIVE



123899

❏ Unclip the lock (**4**) from the R 13 connector.

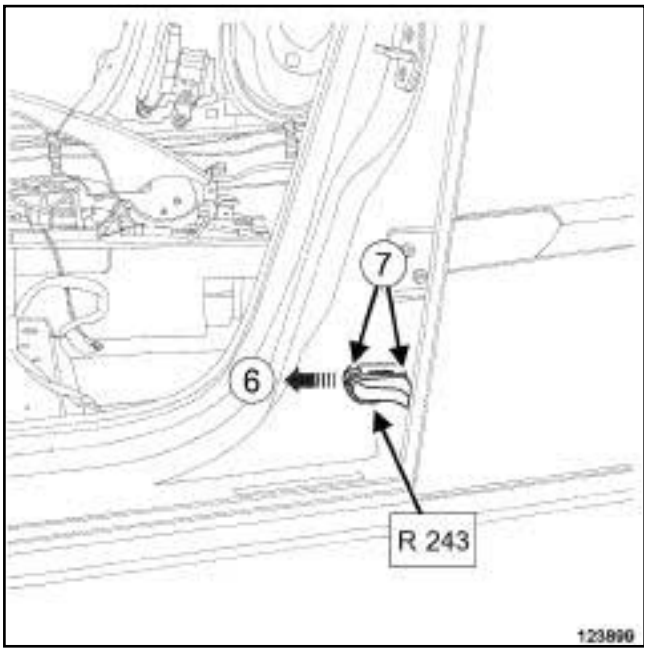
❏ Disconnect the R 13 connector.

❏ Remove the bolts (**5**) of the R 13 connector.

❏ Extract the wiring of the B-pillar.

B85 or K85

RIGHT-HAND DRIVE



123899

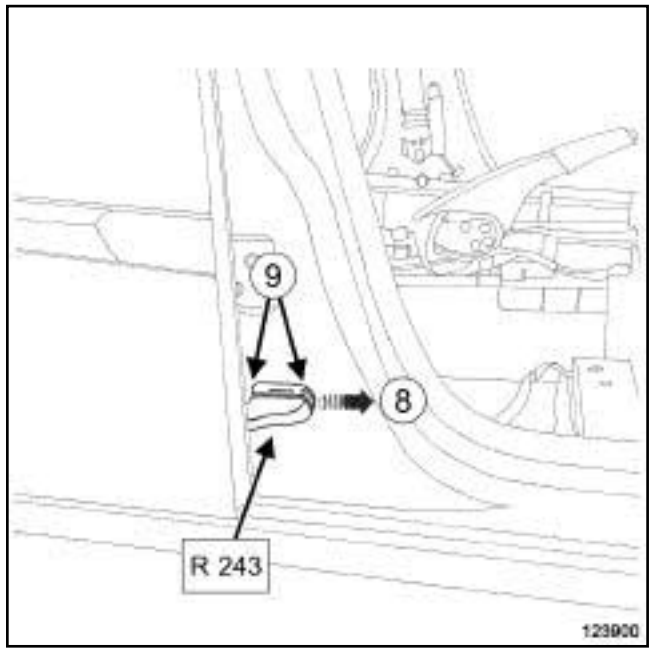
❏ Unclip the lock (**6**) from the R 243 connector.

❏ Disconnect the R 243 connector.

❏ Remove the bolts (**7**) of the R 243 connector.

❏ Extract the wiring of the B-pillar.

LEFT-HAND DRIVE



123900

❏ Unclip the lock (**8**) from the R 243 connector.

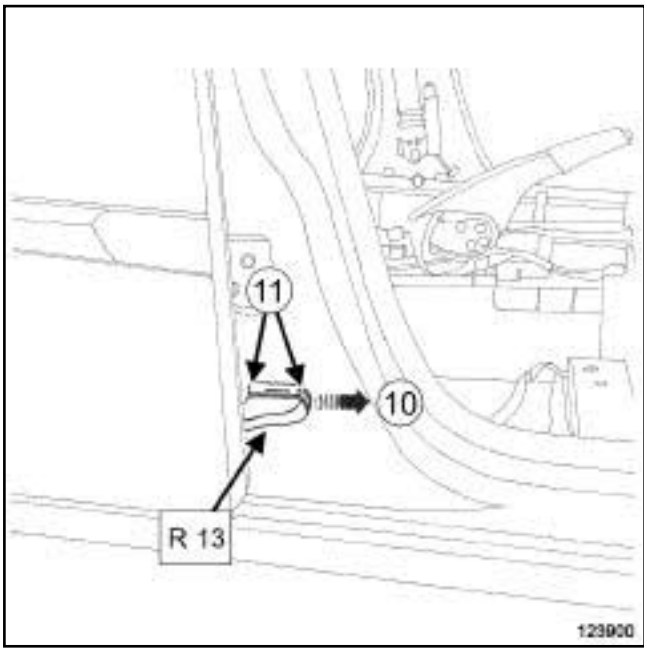
❏ Disconnect the R 243 connector.

❏ Remove the bolts (**9**) of the R 243 connector.

❏ Extract the wiring of the B-pillar.

B85 or K85

RIGHT-HAND DRIVE



123900

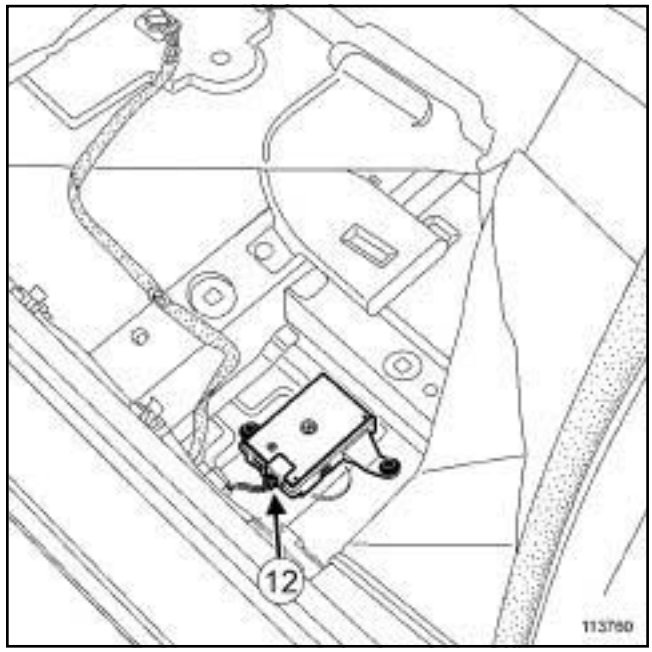
❏ Unclip the lock (**10**) from the R 13 connector.

❏ Disconnect the R 13 connector.

❏ Remove the bolts (**11**) of the R 13 connector.

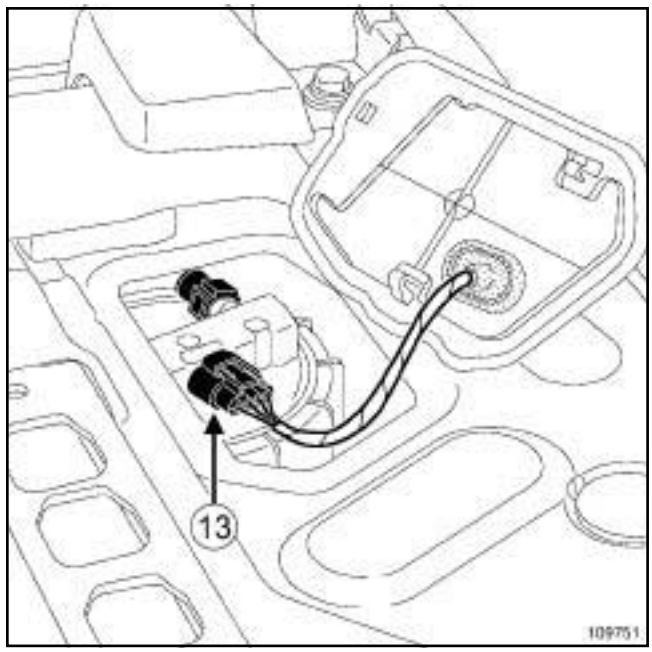
❏ Extract the wiring of the B-pillar.

TYRE PRESSURE SENSOR



113760

❏ Disconnect the connector (**12**) from the tyre pressure monitoring system computer.



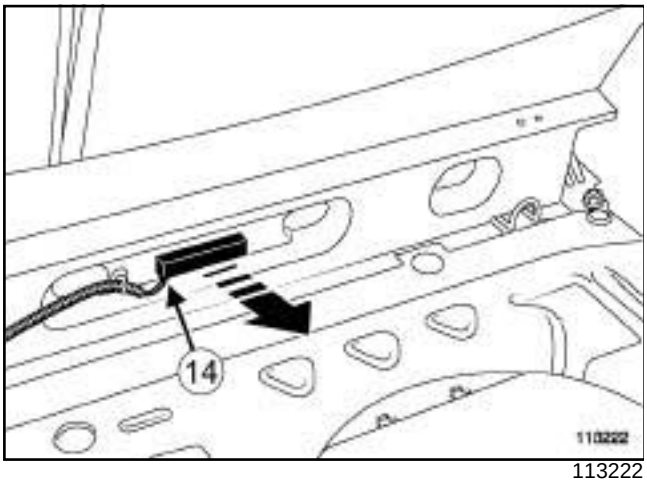
109751

❏ Open the fuel gauge flap.

❏ Disconnect the connector (**13**) from the fuel gauge.

B85 or K85

VEHICLE WITH CARD



113222

❏ Disconnect the (**14**) rear starter aerial connector.

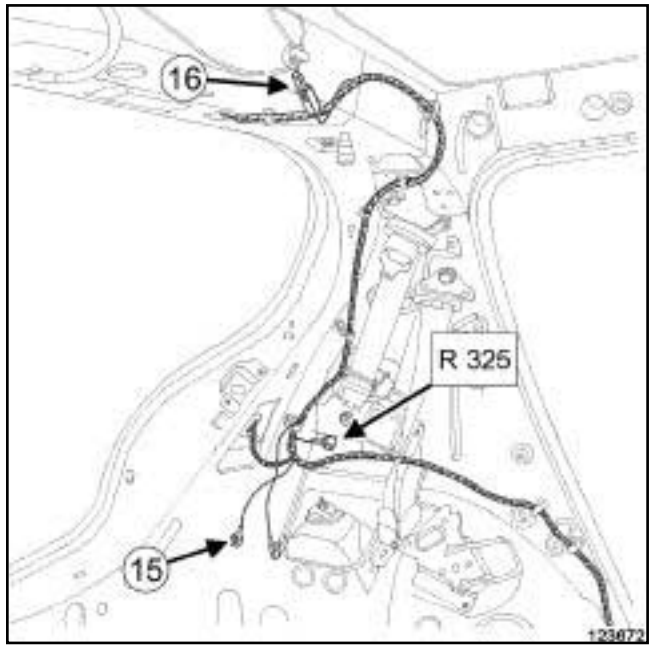
ELECTRONIC STABILITY PROGRAM

❏ Remove the front right and left-hand wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),

❏ Unclip the rear right-hand and left-hand wheel speed sensor clip.

❏ Disconnect the connector of the rear right-hand and left-hand wheel speed sensor.

❏ Extract the wiring under body.



123672

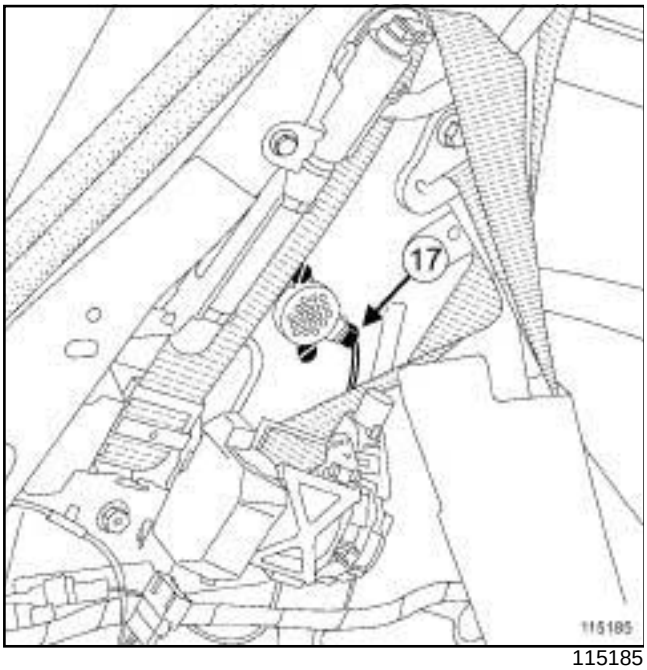
❏ Remove the nut (**15**) from the earth terminal.

❏ Disconnect:

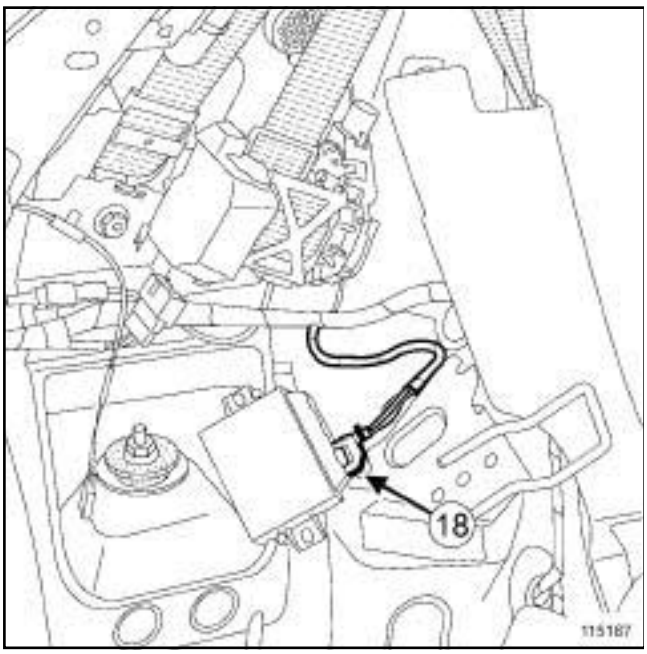
- the earth terminal,
- the radio aerial (**16**) connector.
- the R 325 connector.

B85 or K85

PROXIMITY RADAR



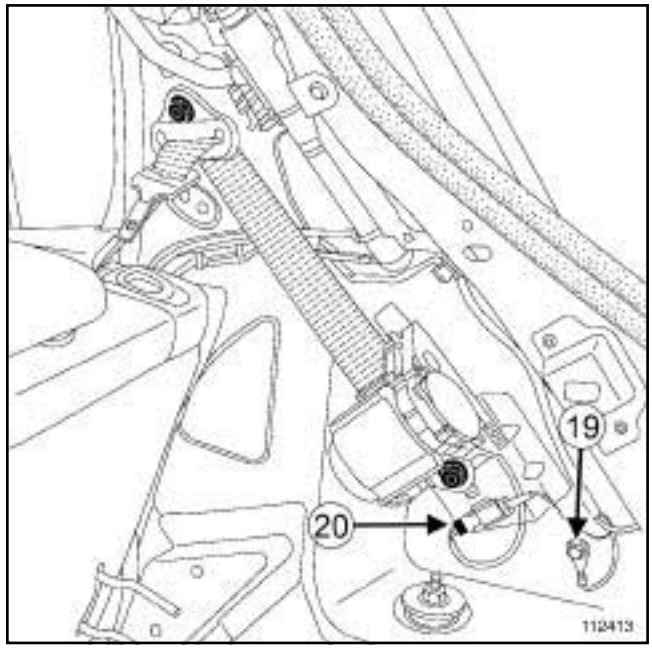
115185



115187

❏ Disconnect the connector (**17**) from the parking distance control buzzer.

❏ Remove the parking distance control computer to disconnect its connector (**18**) (see **87F**, **Parking distance control**, **Parking distance control computer: Removal - Refitting**, page **87F-6**) .

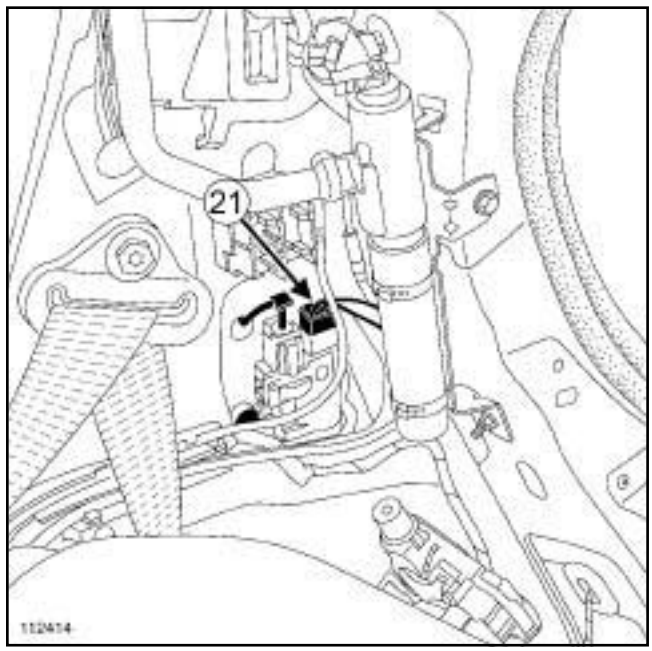


112413

❏ Remove the nut (**19**) from the earth terminal.

❏ Disconnect:

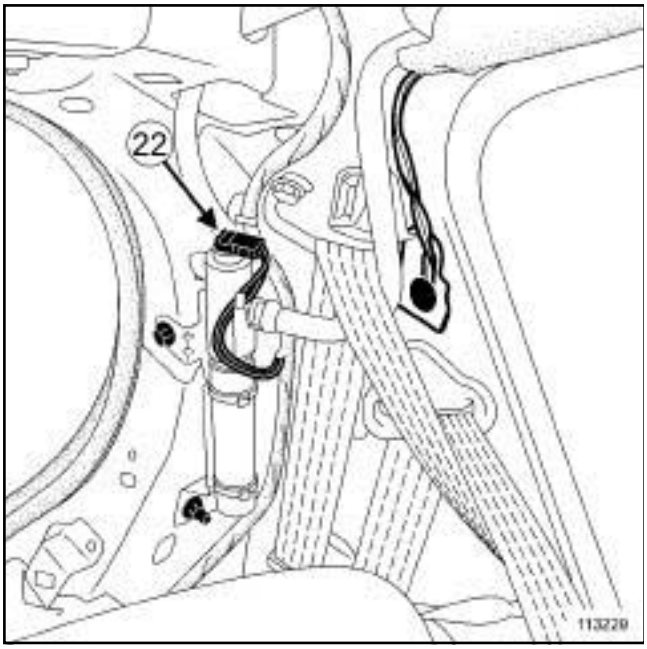
- the connector (**20**) of the right-hand and left-hand pyrotechnic inertia reel,
- the earth terminal.



112414

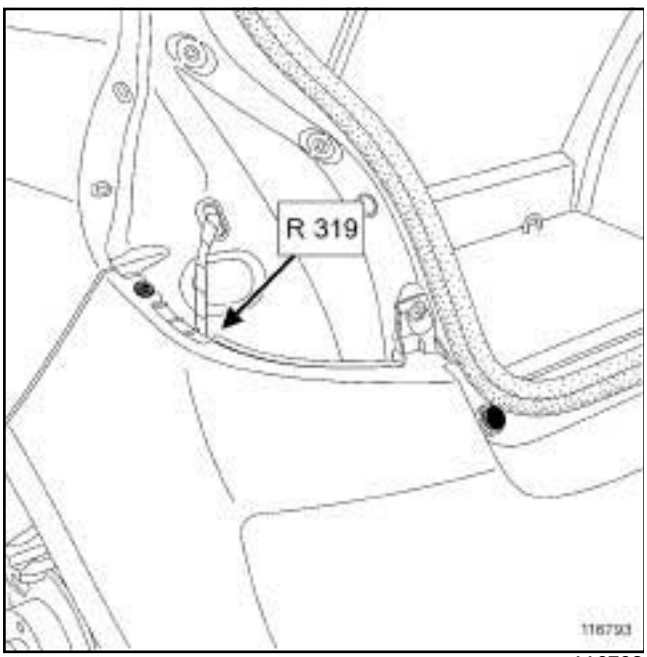
❏ Disconnect the connector (**21**) from the fuel filler flap lock motor.

B85 or K85



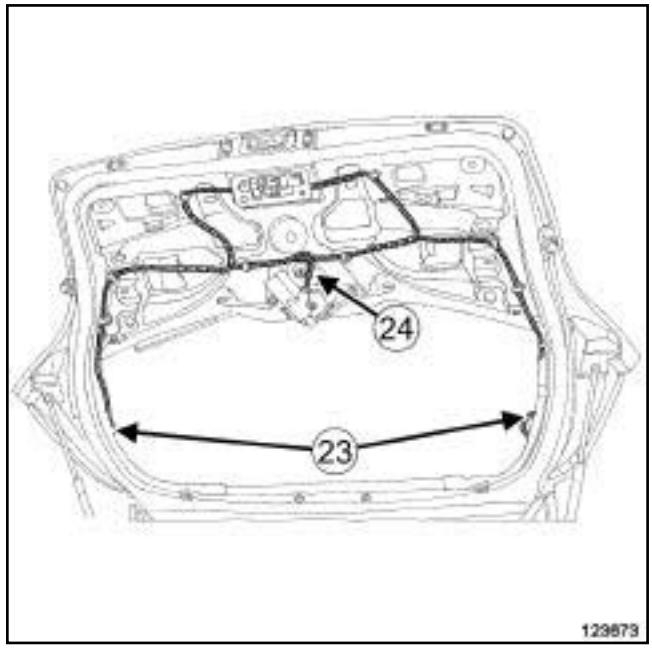
113229

❏ Disconnect the connector (**22**) of the right-hand and left-hand side curtain airbag.



116793

❏ Disconnect the R 319 connector.

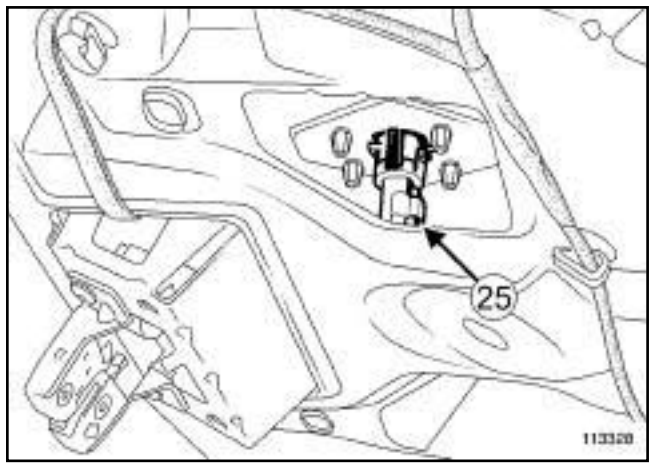


123673

❏ Disconnect:

- the connectors (**23**) of the rear screen defrosting system,
- the connector (**24**) of the rear screen wiper motor.

VEHICLE WITH CARD



113328

❏ Disconnect the connector (**25**) from the tailgate locking switch.

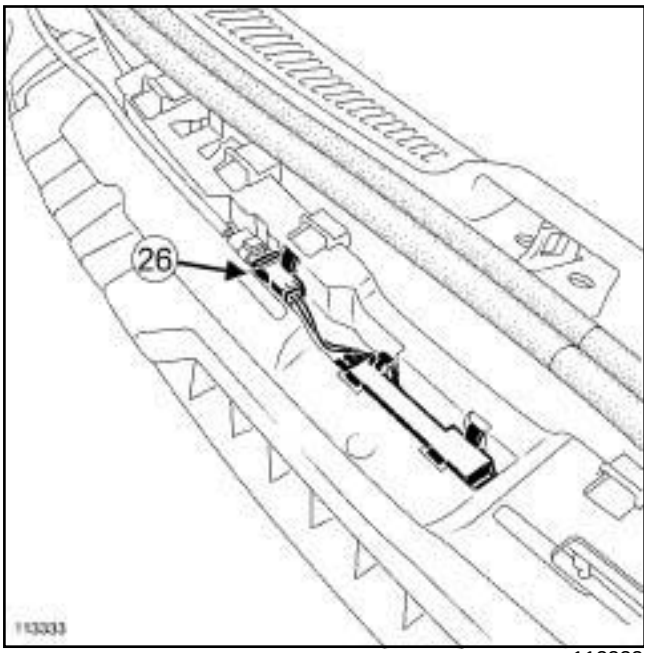
❏ Remove the following to disconnect the connectors:

- the tailgate lock (see **Tailgate lock: Removal - Refitting**) ,

B85 or K85

- the tailgate opening switch (see **87C**, **Opening element management**, **Tailgate opening switch: Removal - Refitting**, page **87C-5**) ,
- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

VEHICLE WITH CARD



113333

❏ Remove the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Unclip the connector of the rear bumper absorber.

❏ Disconnect the connector (**26**) from the opening aerial.

❏ Unclip the rear wiring.

❏ Remove the rear wiring.

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

❏ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the rear wiring.

❏ Clip on the rear wiring.

VEHICLE WITH CARD

❏ Connect the opening aerial connector.

❏ Clip the opening aerial connector onto the rear bumper absorber.

❏ Refit the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Refit:

- the tailgate lock (see **Tailgate lock: Removal - Refitting**) ,
- the tailgate opening switch (see **87C**, **Opening element management**, **Tailgate opening switch: Removal - Refitting**, page **87C-5**) ,
- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

VEHICLE WITH CARD

❏ Connect the tailgate locking switch connector.

❏ Connect:

- the rear screen defrosting connectors,
- the rear screen wiper motor connector.

❏ Connect:

- the R 319 connector,
- the connector of the right-hand and left-hand side curtain airbag,
- the fuel filler flap lock motor connector,
- the right-hand and left-hand earth terminals,
- the connector of the rear pyrotechnic inertia reels,
- the R 325 connector,
- the radio aerial connector.

❏ Torque tighten the **earth terminal nuts (8 Nm)**.

B85 or K85

PROXIMITY RADAR

❏ Connect the parking distance control buzzer connector.

❏ Refit the parking distance control computer (see **87F**, **Parking distance control**, **Parking distance control computer: Removal - Refitting**, page **87F-6**) .

ELECTRONIC STABILITY PROGRAM

❏ Fit the wiring under body.

❏ Connect the rear right-hand and left-hand wheel speed sensor connector.

❏ Clip on the right-hand and left-hand wheel speed sensor.

❏ Refit the front right-hand and left-hand wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),

VEHICLE WITH CARD

❏ Connect the rear starter aerial connector.

❏ Connect the fuel sender connector.

❏ Close the fuel gauge flap.

TYRE PRESSURE SENSOR

❏ Connect the tyre pressure monitoring system computer connector.

❏ Fit the wiring onto the B-pillars.

❏ Refit the side door connector bolts.

❏ Connect the rear side door connectors.

❏ Clip on the rear side door connector locks.

❏ Connect:

- the front pyrotechnic inertia reel connectors,
- the impact sensor connectors,
- the airbag computer connector.

❏ Clip on the airbag computer connector lock.

❏ Connect:

- the R 374 connector,
- the R 2 connector.

II - FINAL OPERATION.

❏ Refit:

- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .
- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the centre floor rear soundproofing (see **Centre floor rear soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the centre floor lateral soundproofing (see **Centre floor side soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the front centre floor carpet (see **Centre floor front carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear centre floor carpet (see **Centre floor rear carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the rear door sill trims (see **Rear door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front door sill inner trims (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the wheel arch trims (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the quarter panel trims (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seat base: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),

B85 or K85

- the front seats (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❑ Unlock the airbag computer using the **Diagnostic tool** (see **MR 394, 88C, Airbags and pretensioners**).

C85 or S85

Equipment required
Diagnostic tool

Tightening torques ▽	
earth terminal nuts	**8 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

WARNING

To prevent damage to the wiring harness when refitting, observe the original routing.

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❏ Lock the airbag computer using the **Diagnostic tool** (see **MR 394, 88C, Airbags and pretensioners).**

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❏ Remove:

- the front seats (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),
- the rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seat base: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the rear right-hand and left-hand panel trim (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear quarter panel trims (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the wheel arch trims (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front door sill inner trims (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the rear centre floor carpet (see **Centre floor rear carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front centre floor carpet (see **Centre floor front carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the side soundproofing of centre floor (see **Centre floor side soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the rear soundproofing of centre floor (see **Centre floor rear soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),

C85 or S85

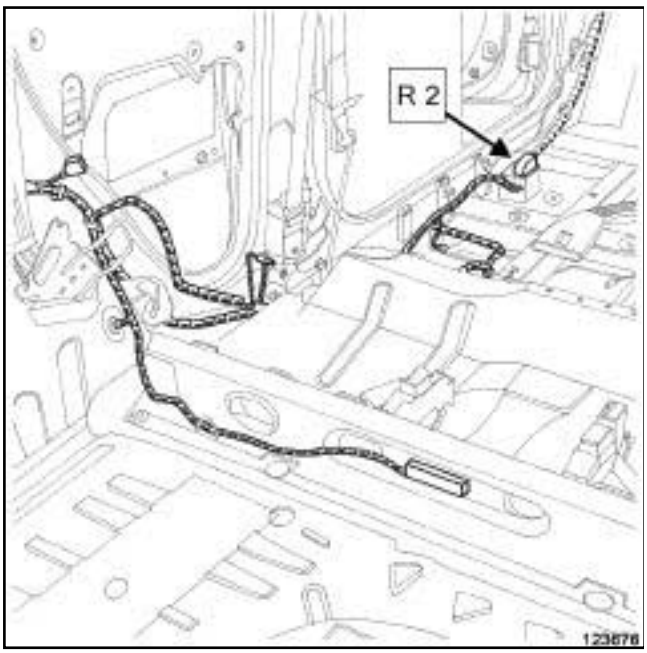
- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED

❑

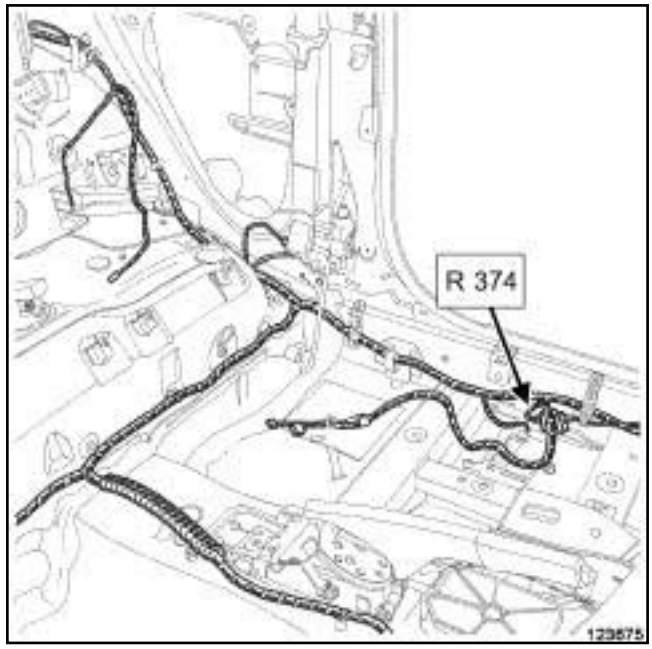
WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



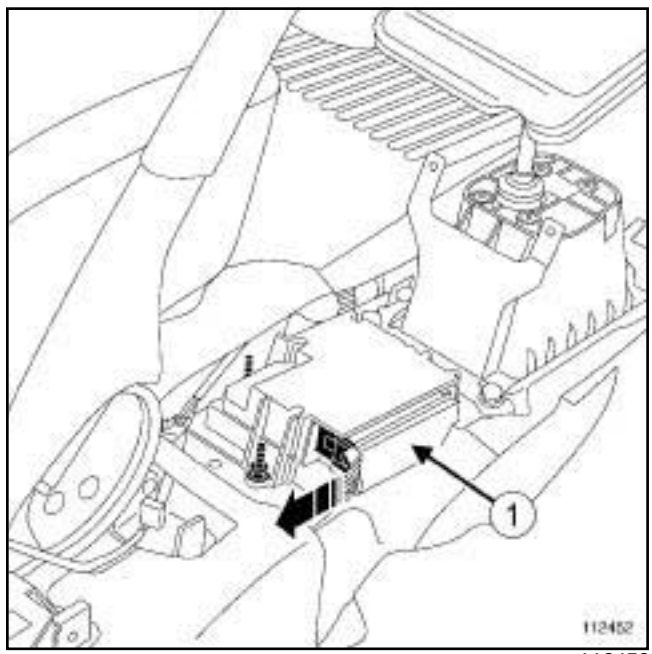
123676

❑ Disconnect the R 2 connector.



123675

❑ Disconnect the R 374 connector.

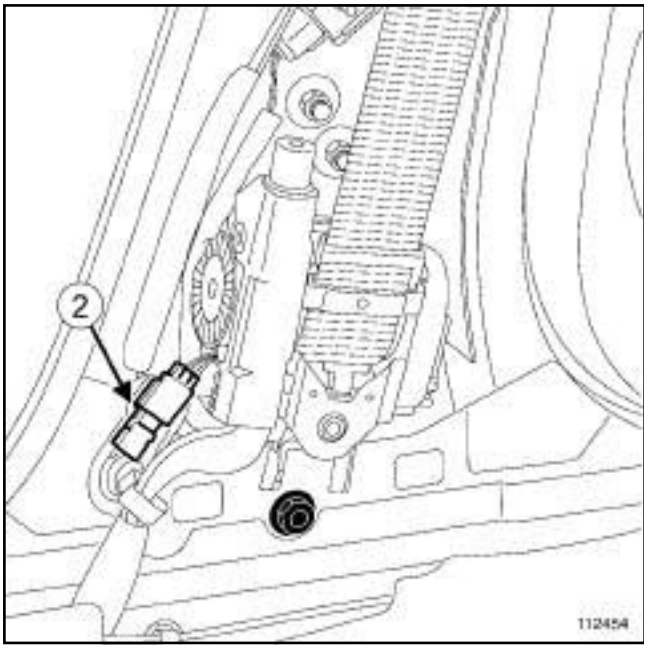


112452

❑ Unclip the airbag computer connector lock.

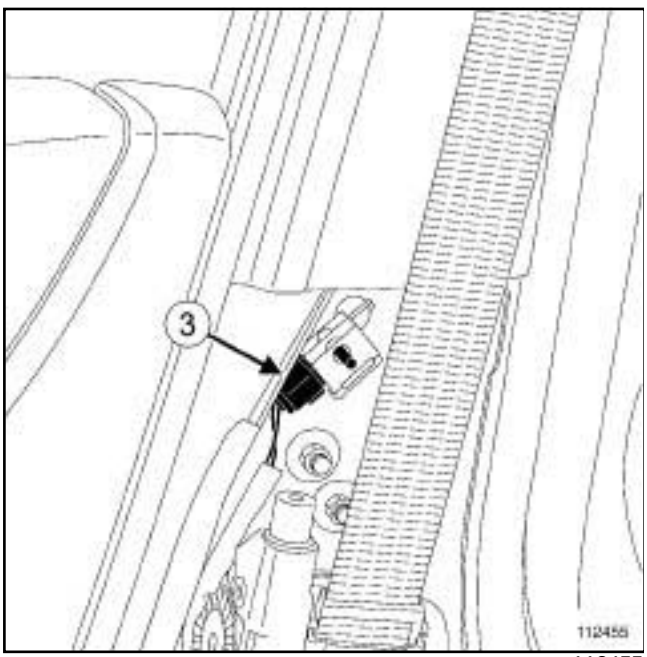
❑ Disconnect the airbag computer connector (**1**) .

C85 or S85



112454

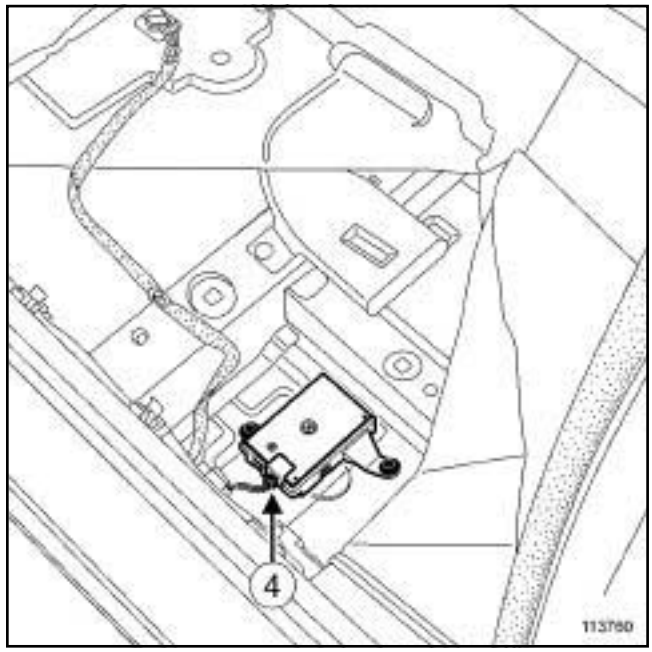
❏ Disconnect the front right-hand and left-hand pyrotechnic inertia reel connector (**2**) .



112455

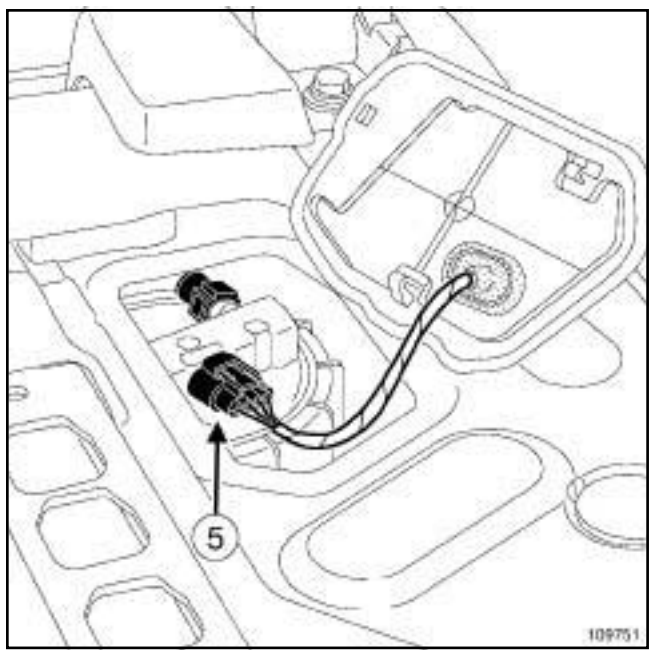
❏ Disconnect the right-hand and left-hand impact sensor connector (**3**) .

TYRE PRESSURE SENSOR



113760

❏ Disconnect the tyre pressure monitoring system computer connector (**4**) .



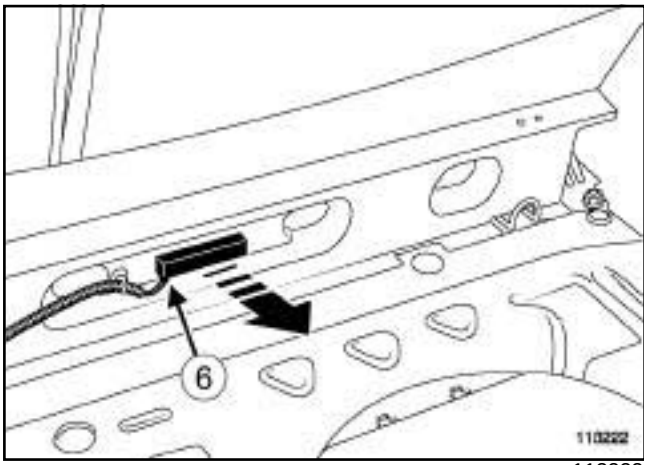
109751

❏ Open the fuel gauge flap.

❏ Disconnect the fuel gauge connector (**5**) .

C85 or S85

VEHICLE WITH CARD



113222

❏ Disconnect the rear starter aerial connector (**6**) .

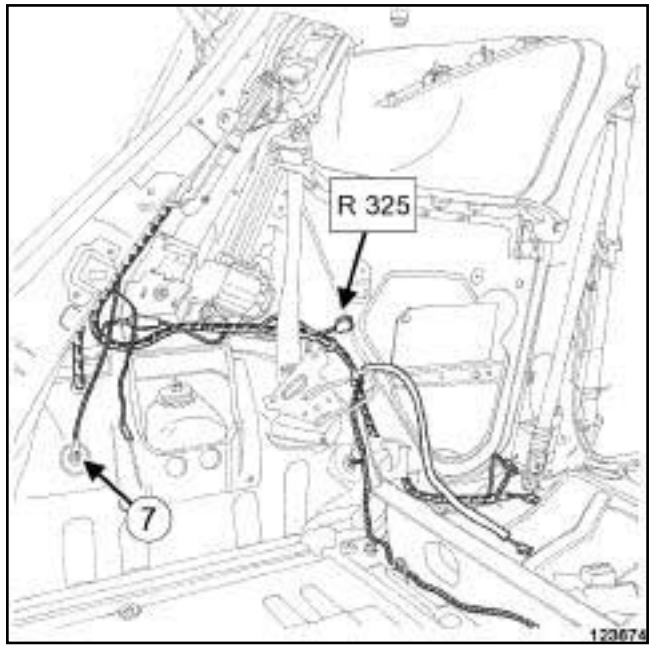
ELECTRONIC STABILITY PROGRAM

❏ Remove the rear right-hand and left-hand wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),

❏ Unclip the rear right-hand and left hand wheel speed sensor clip.

❏ Disconnect the rear right-hand and left-hand wheel speed sensor connector.

❏ Extract the wiring under the body.

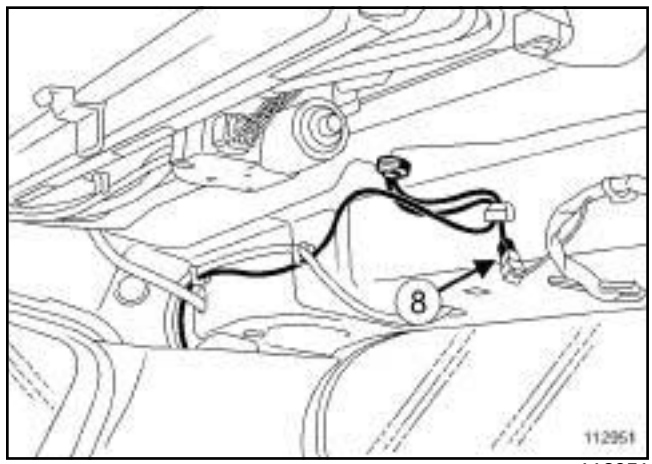


123674

❏ Remove the nut (**7**) from the earth terminal.

❏ Disconnect:

- the earth terminal,
- the R 325 connector.

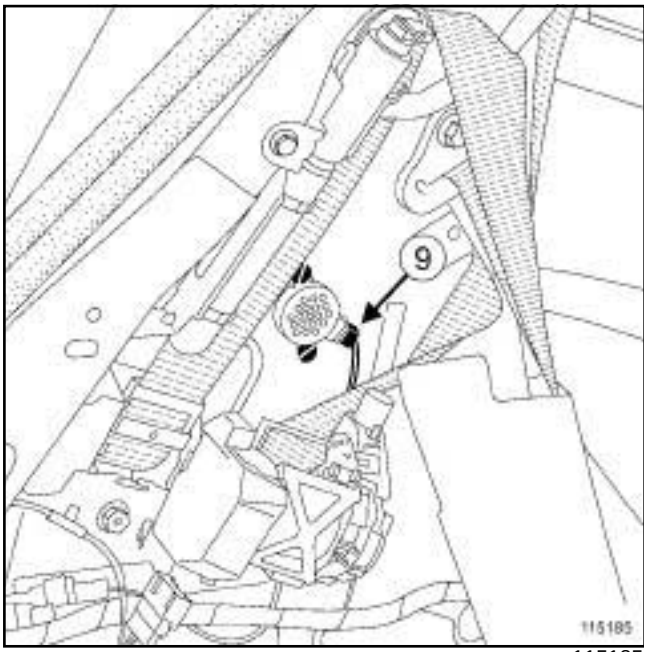


112951

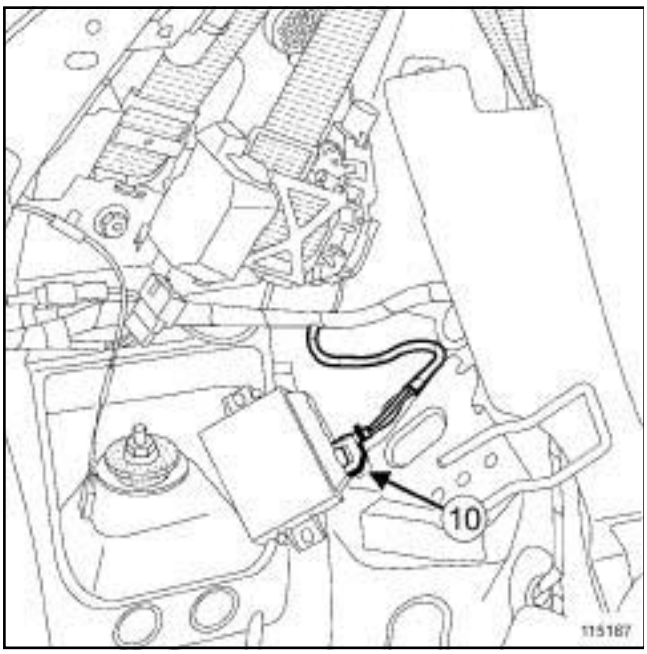
❏ Disconnect the radio aerial connector (**8**) .

C85 or S85

PROXIMITY RADAR



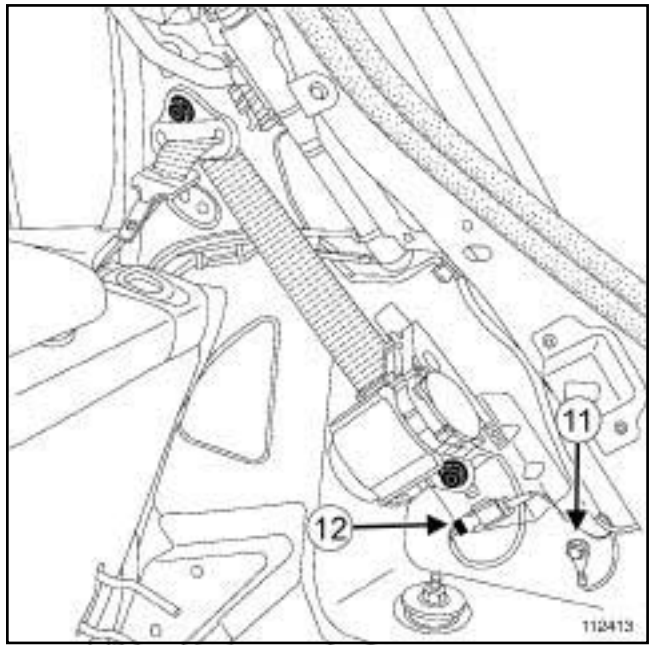
115185



115187

❏ Disconnect the connector (**9**) from the parking distance control buzzer.

❏ Remove the parking distance control computer to disconnect the connector (**10**) (see **87F**, **Parking distance control**, **Parking distance control computer: Removal - Refitting**, page **87F-6**) .

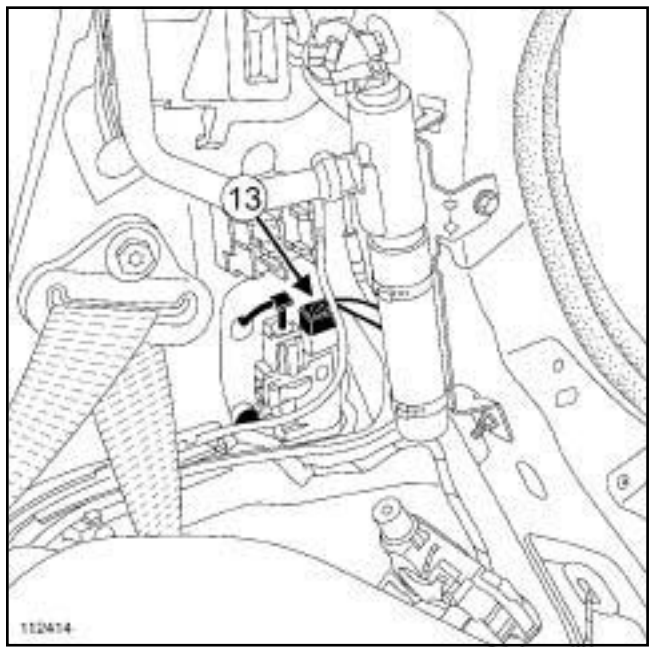


112413

❏ Remove the nut (**11**) from the earth terminal.

❏ Disconnect:

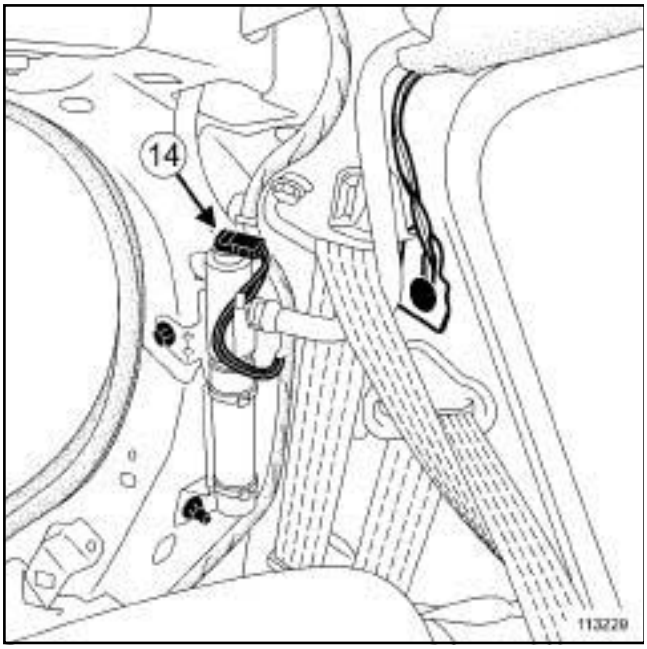
- the right-hand and left-hand pyrotechnic inertia reel connector (**12**) ,
- the earth terminal.



112414

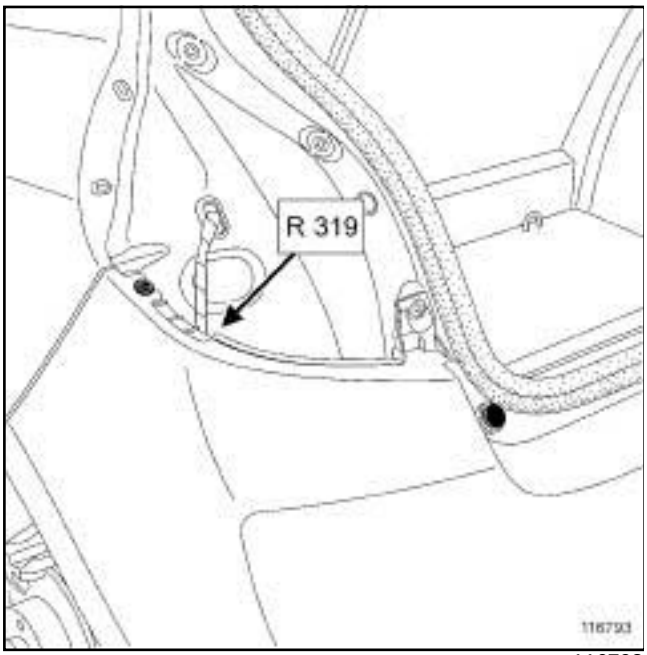
❏ Disconnect the connector (**13**) from the fuel filler flap lock motor.

C85 or S85



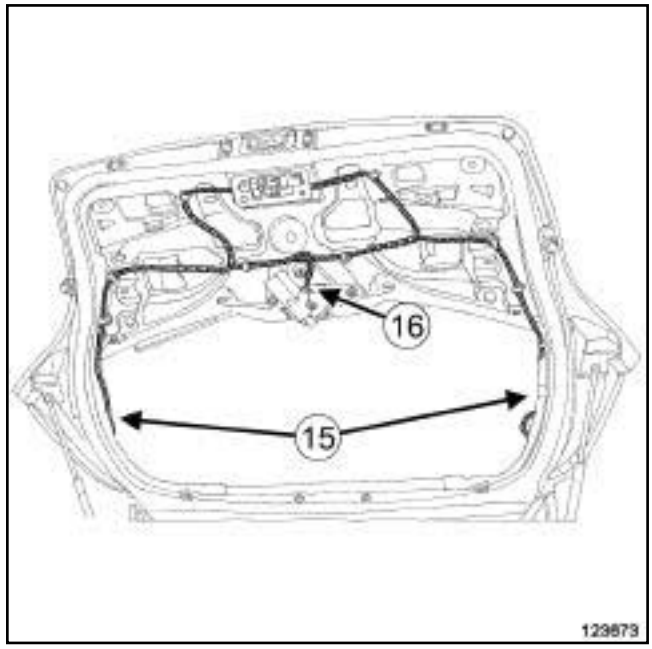
113229

❏ Disconnect the left-hand and right-hand side curtain airbag connector (**14**) .



116793

❏ Disconnect the R 319 connector.

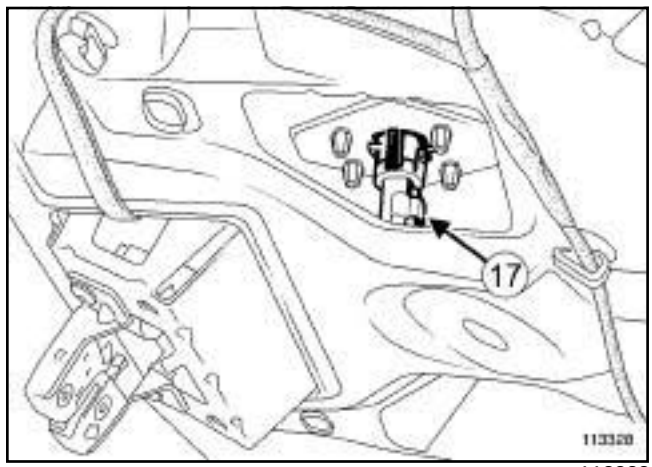


123673

❏ Disconnect:

- the connectors (**15**) of the heated rear screen,
- the rear screen wiper motor connector (**16**) .

VEHICLE WITH CARD



113328

❏ Disconnect the connector (**17**) from the tailgate locking switch.

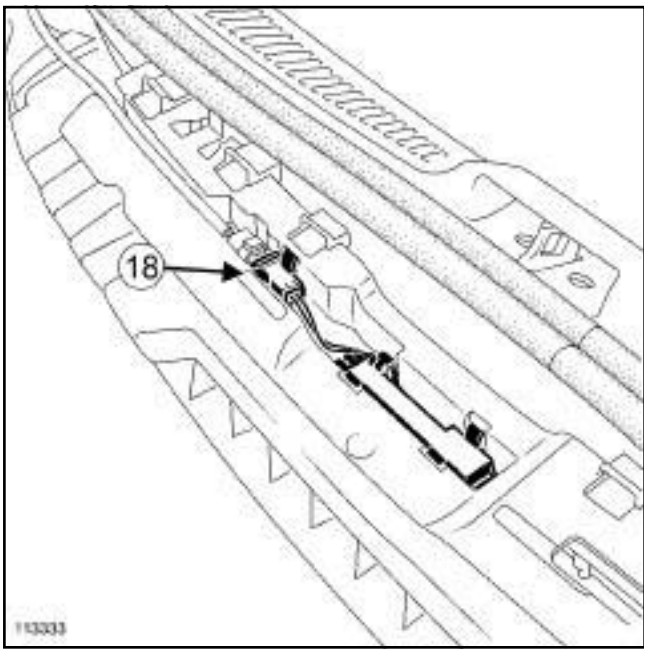
❏ To disconnect the connectors, remove:

- the tailgate lock (see **Tailgate lock: Removal - Refitting**) ,
- the tailgate opening switch (see **87C**, **Opening element management**, **Tailgate opening switch: Removal - Refitting**, page **87C-5**) ,

C85 or S85

- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

VEHICLE WITH CARD



113333

❏ Remove the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Unclip the rear bumper absorber connector.

❏ Disconnect the connector (**18**) from the opening aerial.

❏ Unclip the rear wiring.

❏ Remove the rear wiring.

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

❏ If replacing with more wiring, lock the unused connectors (see **Connector: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

I - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the rear wiring.

❏ Clip on the rear wiring.

VEHICLE WITH CARD

❏ Connect the opening aerial connector.

❏ Clip the opening aerial connector onto the rear bumper absorber.

❏ Refit the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❏ Refit:

- the tailgate lock (see **Tailgate lock: Removal - Refitting**) ,
- the tailgate opening switch (see **87C**, **Opening element management**, **Tailgate opening switch: Removal - Refitting**, page **87C-5**) ,
- the high level brake light (see **81A**, **Rear lighting**, **3rd brake light: Removal - Refitting**, page **81A-10**) .

VEHICLE WITH CARD

❏ Connect the tailgate locking switch connector.

❏ Connect:

- the heated rear screen connectors,
- the rear screen wiper motor connector.

❏ Connect:

- the R 319 connector,
- the right-hand and left-hand side curtain airbag connector,
- the fuel filler flap locking motor connector,
- the right-hand and left-hand earth terminals,
- the rear pyrotechnic inertia reel connector,
- the R 325 connector,
- the radio aerial connector.

❏ Torque tighten the **earth terminal nuts (8 Nm)**.

C85 or S85

PROXIMITY RADAR

❑ Connect the parking distance control buzzer connector.

❑ Refit the parking distance control computer (see **87F**, **Parking distance control**, **Parking distance control computer: Removal - Refitting**, page **87F-6**) .

ELECTRONIC STABILITY PROGRAM

❑ Fit the wiring under the body.

❑ Connect the rear right-hand and left-hand wheel speed sensor connector.

❑ Clip on the right-hand and left-hand wheel speed sensor clip.

❑ Refit the rear right-hand and left-hand wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

VEHICLE WITH CARD

❑ Connect the rear starter aerial connector.

❑ Connect the fuel sender connector.

❑ Close the fuel gauge flap.

TYRE PRESSURE SENSOR

❑ Connect the tyre pressure monitoring computer connector.

❑ Connect:

- the connector for the front pyrotechnic inertia reels,
- the connector for the impact sensors,
- the airbag computer connector.

❑ Clip on the airbag computer connector lock.

❑ Connect:

- the R 374 connector,
- the R 2 connector.

II - FINAL OPERATION.

❑ Refit:

- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .
- the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 393, 73A, Non-side opening elements trim),
- the rear soundproofing of centre floor (see **Centre floor rear soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the side soundproofing of centre floor (see **Centre floor side soundproofing: Removal - Refitting**) (MR 393, 68A, Soundproofing),
- the front centre floor carpet (see **Centre floor front carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear centre floor carpet (see **Centre floor rear carpet: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment),
- the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front door sill inner trims (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the wheel arch trims (see **Rear wheel arch trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear quarter panel trims (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seat base: Removal - Refitting**) (depending on the equipment level) (MR 393, 76A, Rear seat frames and runners),
- the front seats (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),

C85 or S85

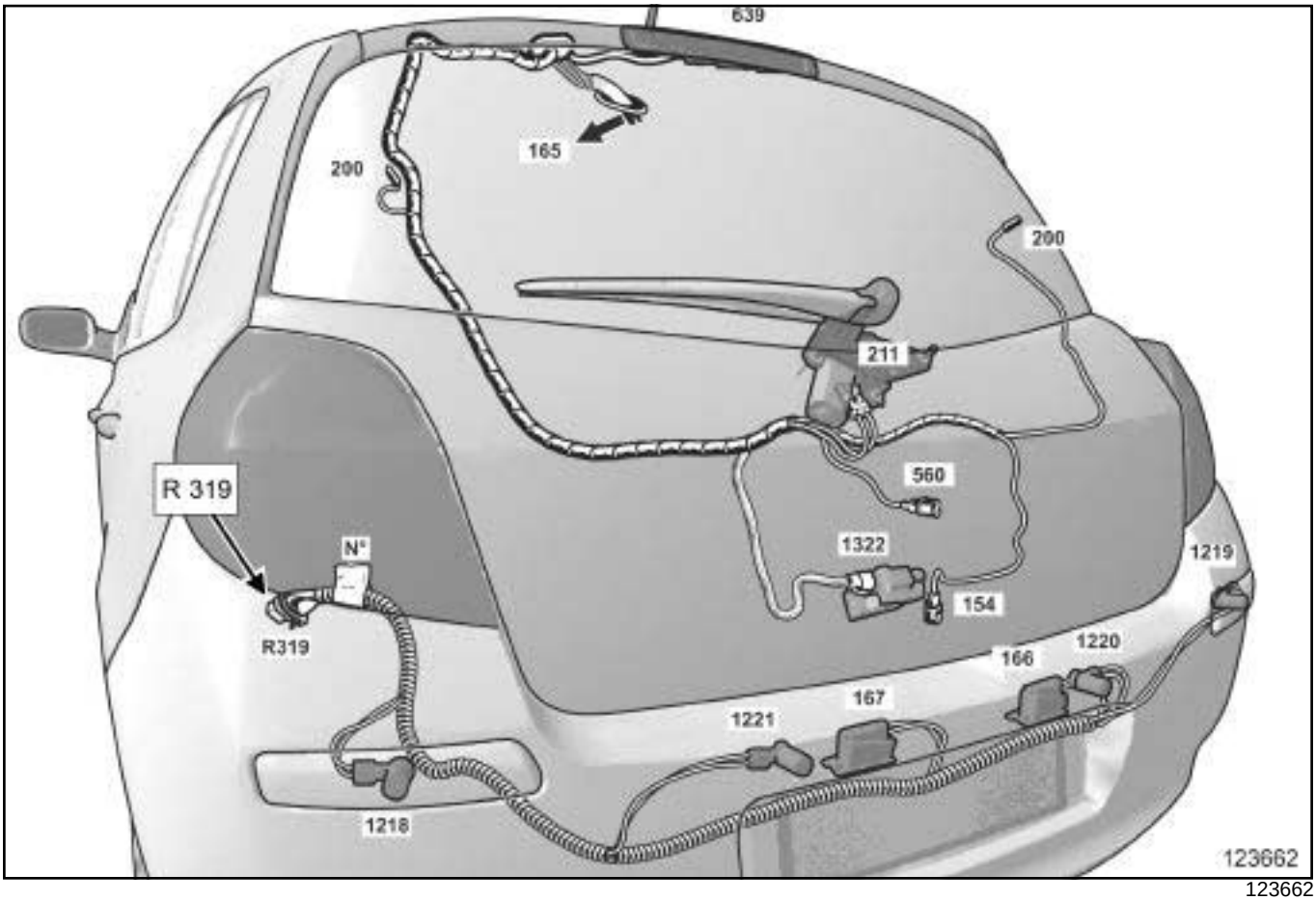
❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❑ Unlock the airbag computer using the **Diagnostic tool** (see **MR 394, 88C, Airbags and pretensioners).**

I - LOCATION OF CONNECTORS



123662

❑ R 319 connecter (rear bumper/rear connection).

II - ACCESS TO CONNECTORS

❑

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

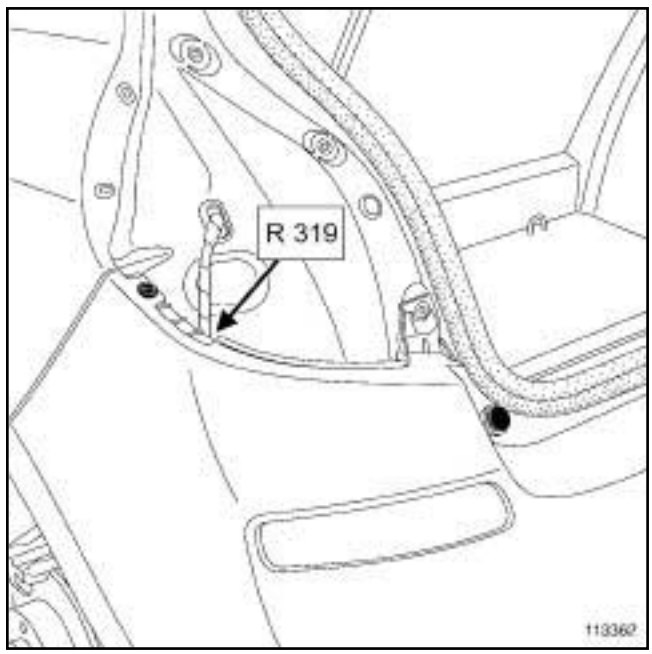
WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

❑ Switch off the ignition.

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the light on the rear left-hand wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) .



113362

❑ Disconnect the R 319 connector.

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88A**, **Wiring harness**, **Wiring: Precautions for the repair**, page **88A-5**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).

❏ Switch off the ignition.

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

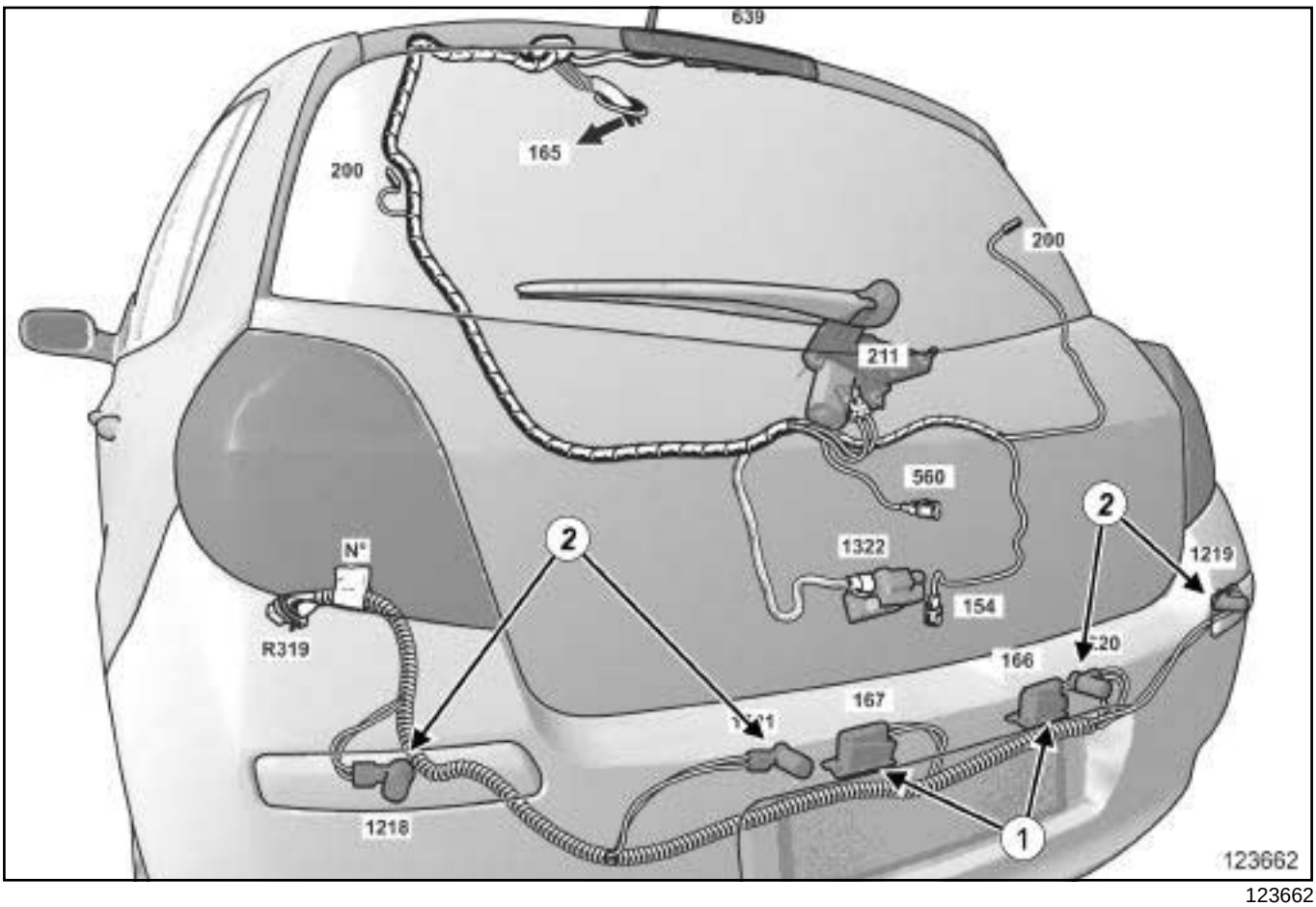
❏ Remove

- the rear wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection),
- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) ,

❏ Disconnect the R 319 connector.

❏ Remove the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

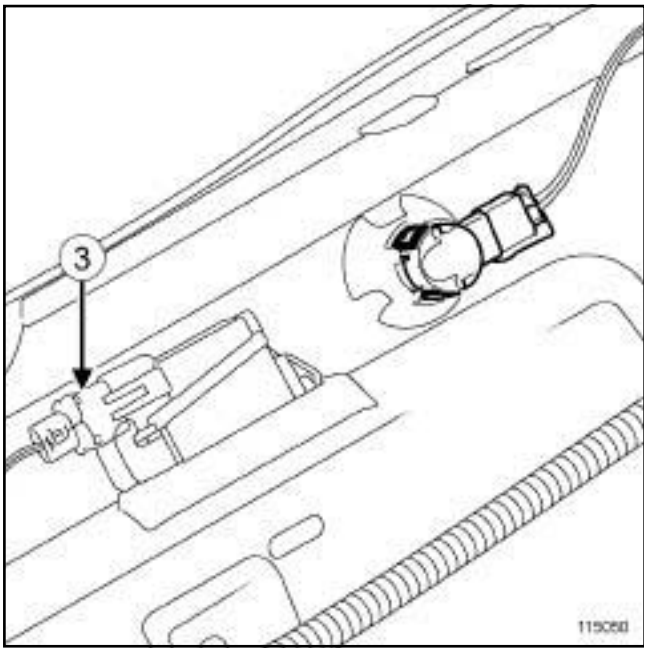
II - OPERATION FOR REMOVAL OF PART CONCERNED



123662

❏

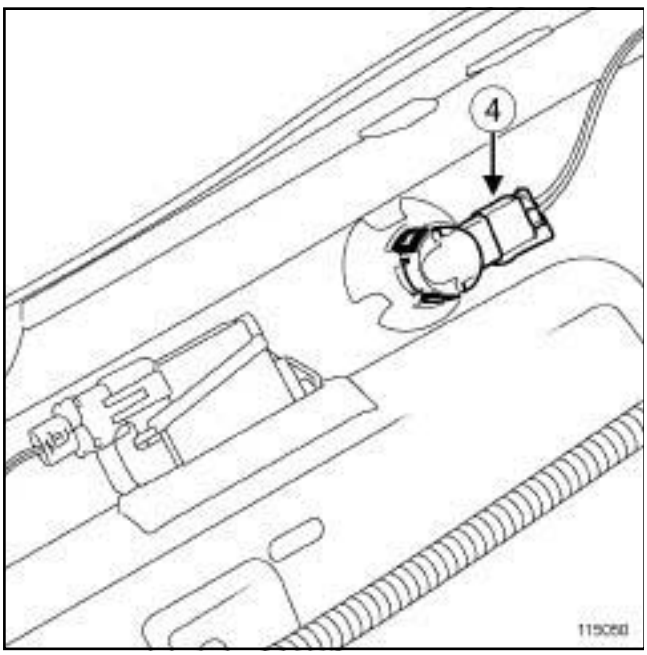
WARNING
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



115050

❑ Disconnect the connector (**3**) from the number plate lights ***(1)*** .

REAR PROXIMITY RADAR



115050

❑ Disconnect the connector (**4**) from the rear proximity sensors ***(2)*** .

❑ Unclip the rear bumper wiring.

❑ Remove the rear bumper wiring.

WARNING
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

REFITTING

I - REFITTING PREPARATION OPERATION

❑ If replacing with more wiring, lock the unused connectors (see **Connectors: Sealing and immobilisation**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Connect the number plate light connectors.

REAR PROXIMITY RADAR

❑ Connect the proximity radar connectors.

❑ Clip the wiring onto the rear bumper.

WARNING
To prevent damage to the wiring harness when refitting, observe the original routing.

III - FINAL OPERATION.

❑ Refit the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

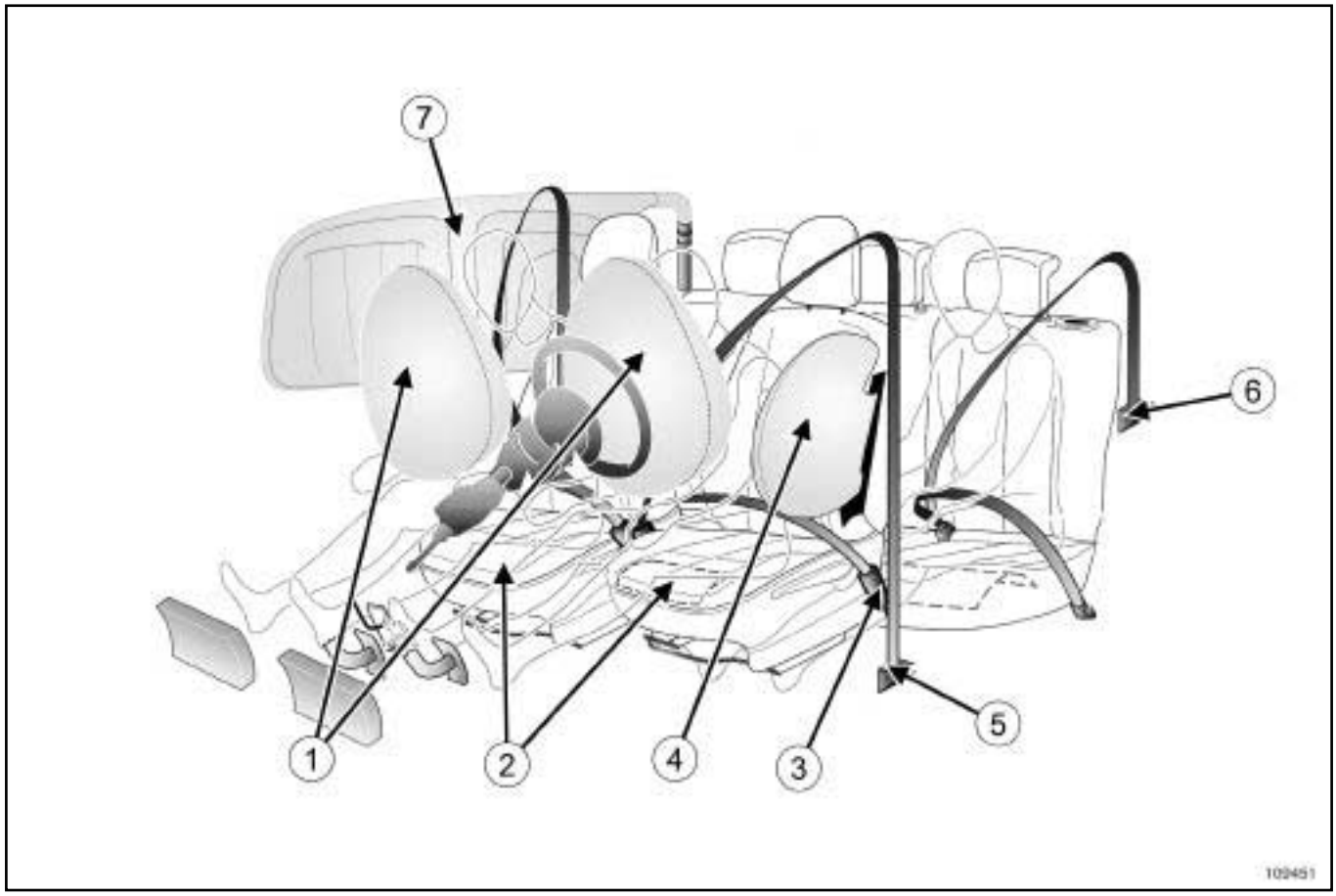
❑ Connect the R319 connector.

❑ Refit:

- the rear lights on the wing (see **81A**, **Rear lighting**, **Rear wing light: Removal - Refitting**, page **81A-5**) ,
- the rear wheel arch liners (see **Rear wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

I - LISTS OF COMPONENTS



109451

list of components

Driver and passenger front airbags ***(1)*** .

C85 or S85

Anti-submarining airbags located in the base of the front seats ***(2)*** .

B85 or K85

Front buckle pretensioners located on the outside of the seat ***(3)*** .

FRONT SIDE AIRBAG

Front chest-level side airbag located in the backrest of the front seats ***(4)*** .

Pyrotechnic front seat belt inertia reels ***(5)*** .

B85 or C85 or K85

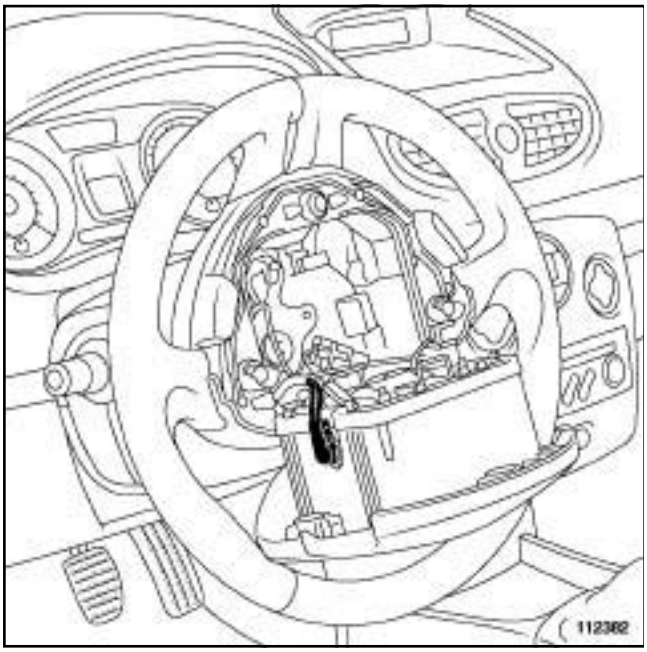
Pyrotechnic rear seat belt inertia reels ***(6)*** .

FRONT SIDE + CURTAIN AIRBAG

Side curtain airbag. ***(7)***

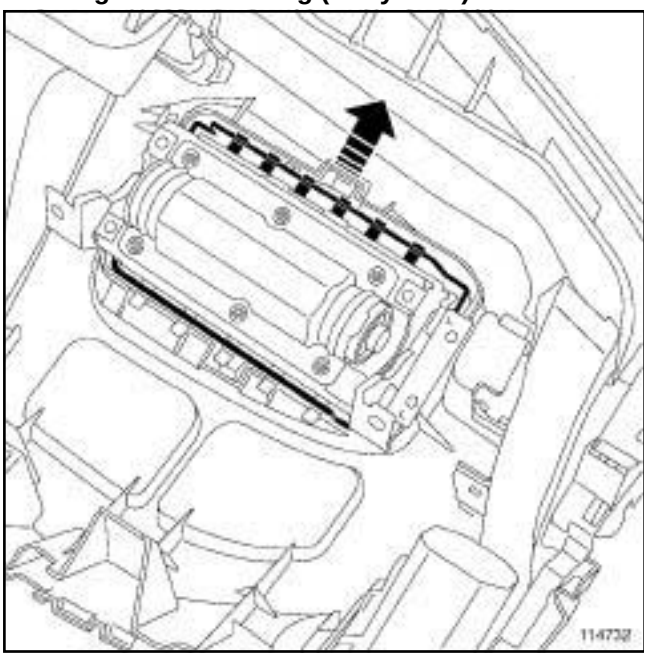
II - FRONTAL AIRBAGS

Driver's front airbag



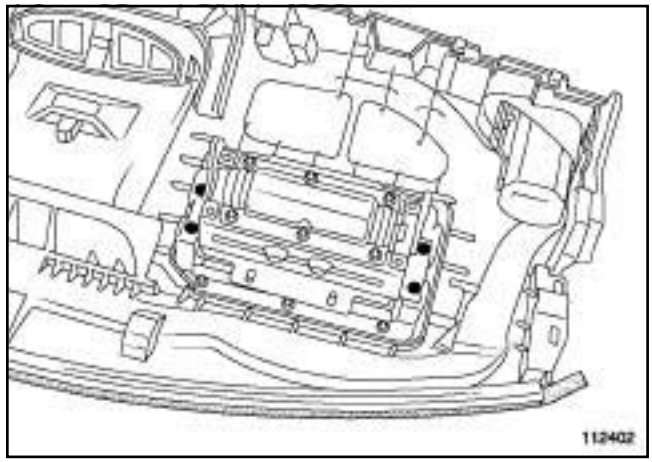
112382

Passenger frontal airbag (entry level)



114732

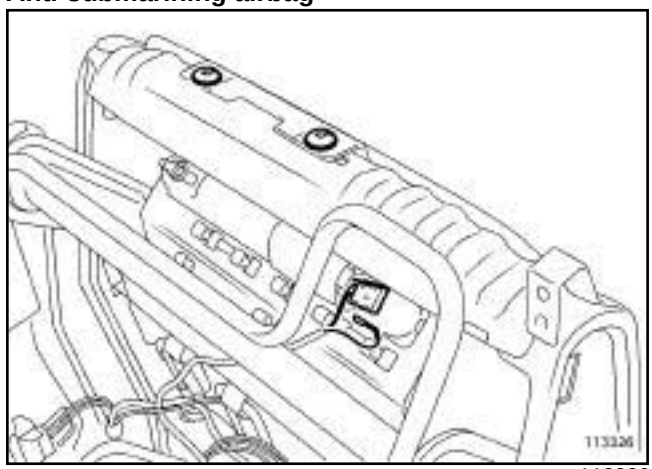
Passenger frontal airbag (top of the range)



112402

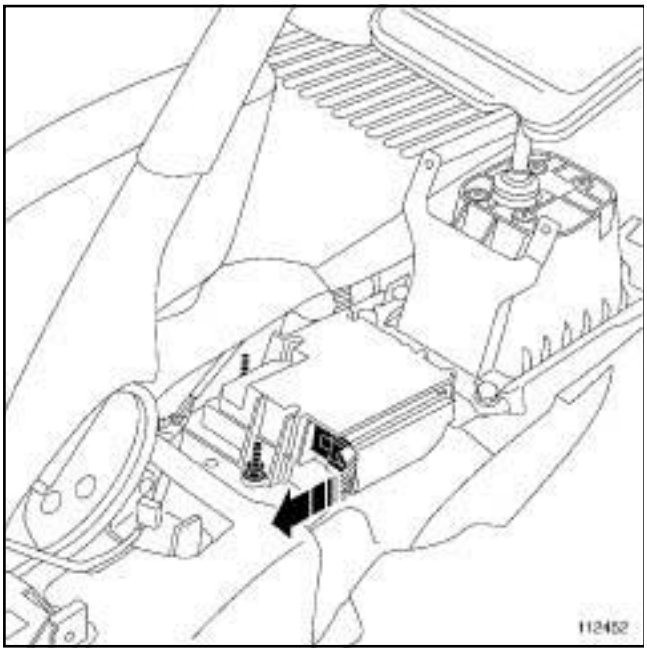
C85 or S85

Anti-submarining airbag



113326

Airbag computer

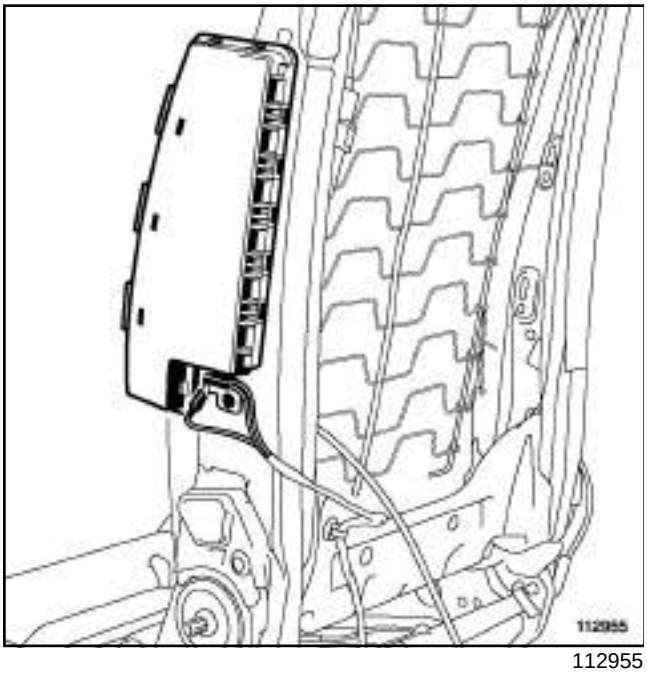


112452

III - LATERAL AIRBAGS

FRONT SIDE AIRBAG or FRONT SIDE + CURTAIN AIRBAG

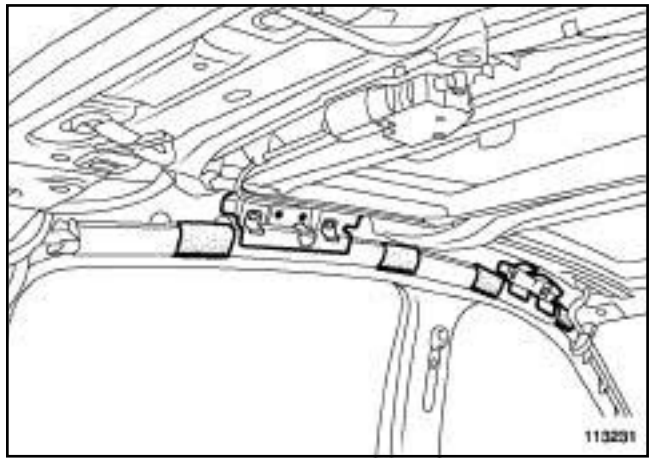
Frontal (thorax) side airbag



112955

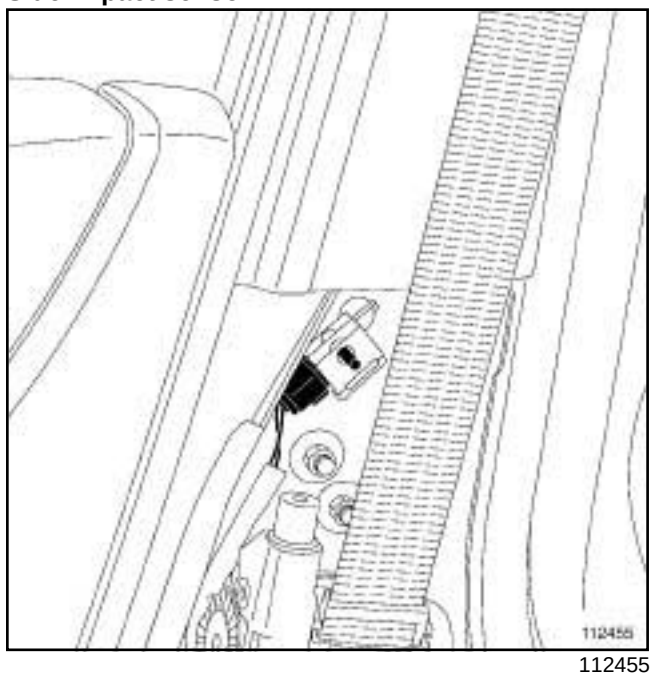
FRONT SIDE + CURTAIN AIRBAG

Curtain side airbag



113231

Side impact sensor

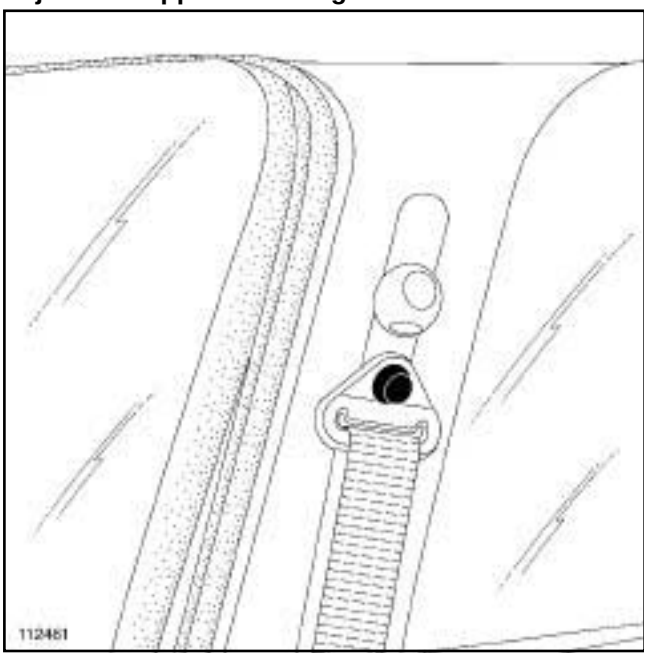


112455

IV - FRONT SEAT BELTS

B85 or K85

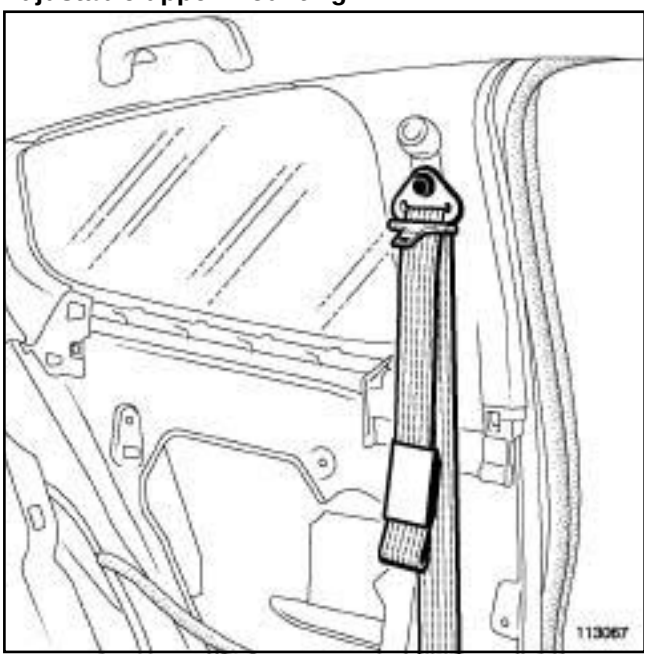
Adjustable upper mounting



112461

C85 or S85

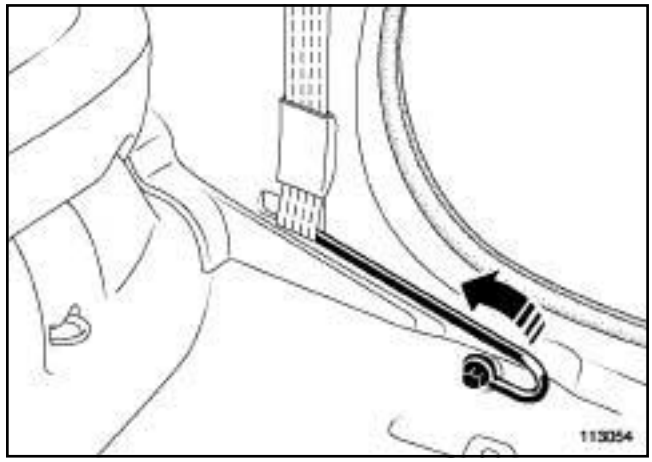
Adjustable upper mounting



113067

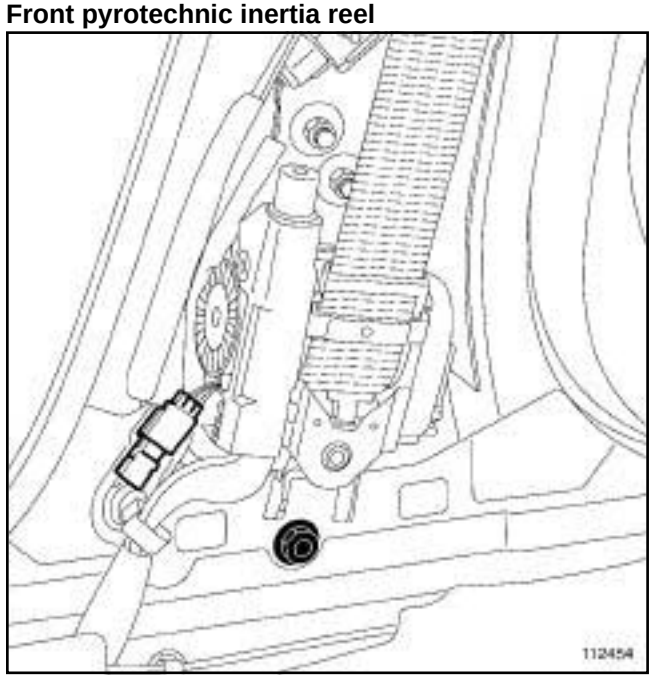
C85 or S85

Lower mounting



113054

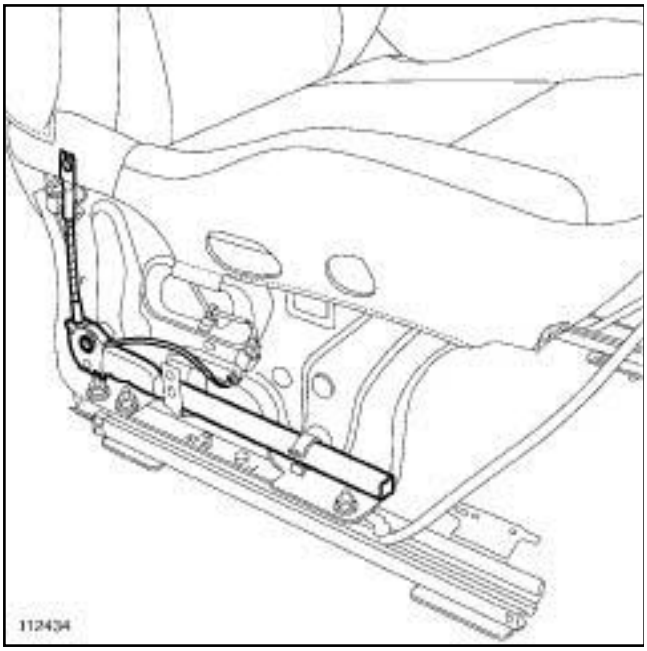
Front pyrotechnic inertia reel



112454

B85 or K85

Lap belt pretensioner

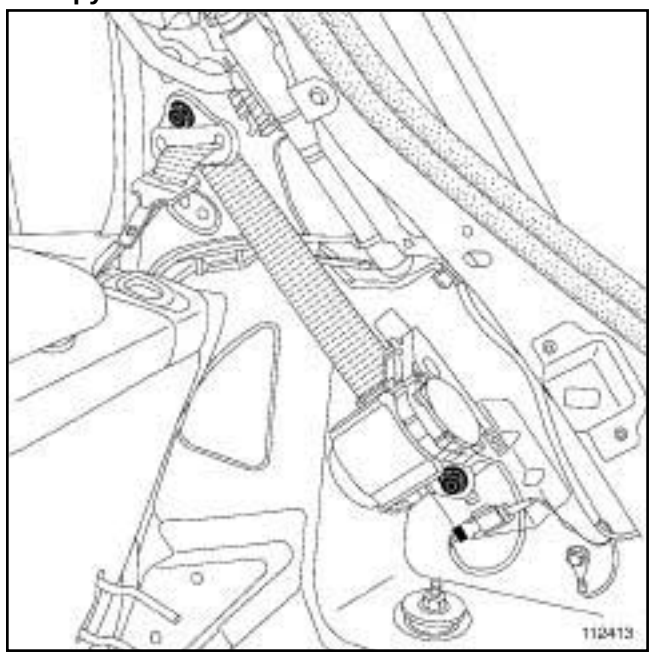


112434

V - REAR SEAT BELT

B85 or C85 or K85

Rear pyrotechnic inertia reel



112413

Equipment required
Diagnostic tool

I - PRECAUTIONS FOR REPAIR

IMPORTANT

All operations on airbag and pretensioner systems must be carried out by qualified trained personnel.

The airbags have a pyrotechnic gas generator, with an ignition module and bag which must not be separated.

The pretensioners have a pyrotechnic gas generator and an igniter which must, under no circumstances, be separated.

IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

IMPORTANT

To prevent any accidental triggering whilst working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the **Diagnostic tool**.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

(see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

When working underneath the vehicle (on the bodywork, sill panel, etc.) or for certain operations involving removal or refitting of seat trims, it is essential to lock the airbag computer using the **Diagnostic tool** and to disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), check the airbag computer using the **Diagnostic tool**.

The pyrotechnic systems (pretensioners and airbags) must be checked using the **Diagnostic tool** :

- after an accident,
- after theft or attempted theft of the vehicle,
- before selling a used vehicle.

II - TRIGGERING OF THE SAFETY SYSTEMS

IMPORTANT

In order to prevent interference with the deployment of the airbags:

- do not fit a cover to the front seats,
- do not place objects in the area of deployment.

After detection of an impact, the airbag computer locks definitively and the « airbag fault » warning light is illuminated on the instrument panel. The airbag computer and the side impact sensors must always be replaced.

IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

III - DURABILITY OF THE PYROTECHNIC COMPONENTS

The precautions which recommended that pyrotechnic components (airbags and pretensioners) were replaced 10 years after the registration of the vehicle have now been lifted.

Pyrotechnic components (airbags and pretensioners) do not therefore require any maintenance.

Special tooling required	
Ele. 1287	Tool for destroying airbags and pretensioners.
Ele. 1287-02	Kit of 2 adapters for the air-bag and pretensioner destruction tool.
Ele. 1812	Kit of 2 adapters for the air-bag and pretensioner destruction tool.

IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Air-bag and pretensioners: Precautions for the repair**, page **88C-6**) .

IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only.

WARNING

- Each part is intended for a specific vehicle type and should not be fitted on another vehicle under any circumstances. The parts are not interchangeable.
- Do not trigger pretensioners which are to be returned under warranty because of a faulty stalk. This makes analysis of the part by the supplier impossible. Return the defective part to Techline in the packaging of the new part.

WARNING

The destruction procedure cannot be carried out if local regulations require a special procedure which has been confirmed and published by the Fault finding, Repair and Procedures Department.

Note:

If triggering is not possible (faulty ignition module) return the part to Techline.



96832

❑ Always use the tool **(Ele. 1287)** and three kits of adapters **(Ele. 1287-02)**,and **(Ele. 1812)**.

❑ Use a wiring connector kit **82 00 518 971**.

❑ Attach the wiring connectors **82 00 518 971** to the adapters **(Ele. 1287-02)** to obtain an adapter for each colour (green, orange, blue, etc.) (see **Wiring: Repair**) (Technical Note 6015A, 88A, Wiring).

❑ Use a battery to power the destruction tool.

I - AIRBAGS

❑

Note:

The airbags must be destroyed outside the workshop, in an area with sufficient space.

The airbags to be destroyed must be removed.

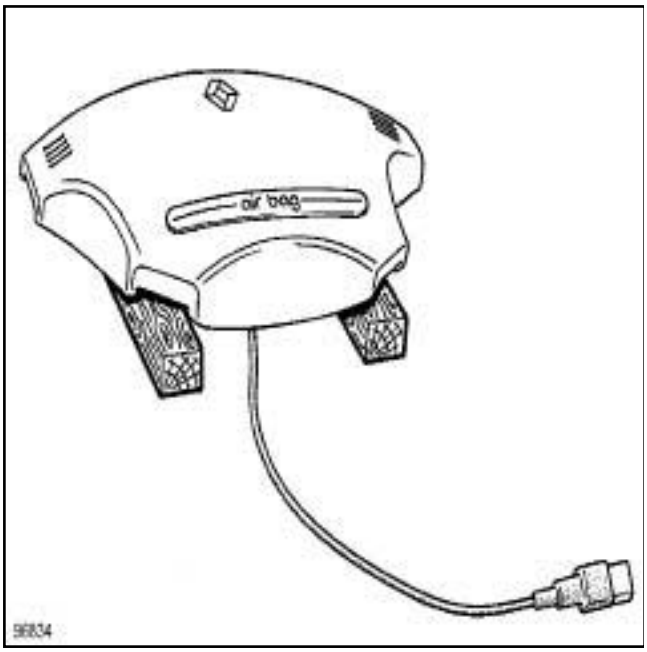
Note:

If the airbag has two levels of activation (i.e. it is fitted with two connectors), destroy both connectors.

❑ Prepare the adapter corresponding to the airbag to be destroyed.

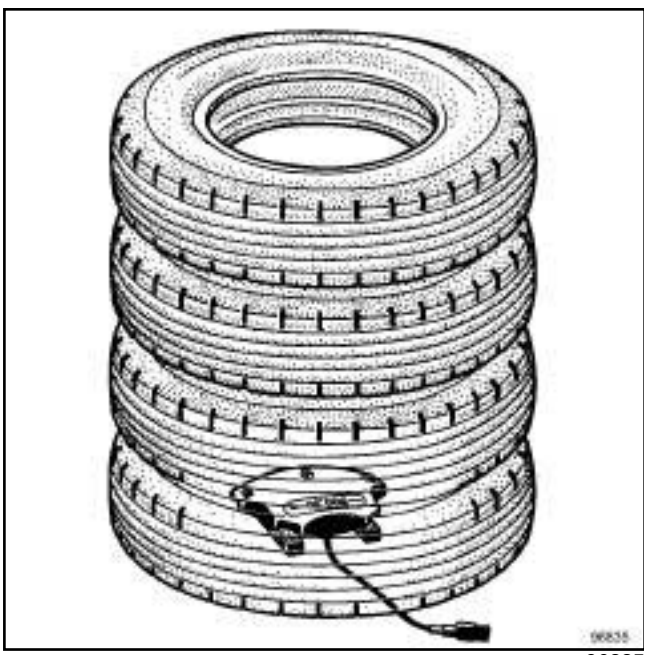
❏ Connect:

- the adapter to the destruction tool **(Ele. 1287)**,
- the adapter to the airbag.



96834

❏ Put the airbag on two wooden blocks.



96835

❏ The destruction procedure is carried out in a stack of old tyres.

❏ Make sure that the airbag deployment will not be hindered.

❏ Unwind the full length of the wiring for the tool, in order to distance it as far away as possible from the pyrotechnic component to be destroyed.

❏ Connect the two feed wires of the destruction tool **(Ele. 1287)** to a battery.

IMPORTANT
To prevent any risk of an accident when destroying a pyrotechnic component, check that no-one is in the vicinity.

❏ Destroy the airbag by pressing the two push buttons on the tool simultaneously.

II - PYROTECHNIC PRETENSIONERS AND INERTIA REELS

1 - Destruction of part fitted on the vehicle to be scrapped:

❏ Move the vehicle outside the workshop.

❏ Mark the adapter corresponding to the pyrotechnic component to be destroyed.

❏ Connect:

- the destruction tool **(Ele. 1287)** to the adapter,
- the adapter to the pyrotechnic component.

❏ Unwind the tool wiring fully, so that you are far enough away from the vehicle (approximately ten metres) when the device is triggered.

❏ Connect the two feed wires of the destruction tool **(Ele. 1287)** to a battery.

IMPORTANT
To prevent any risk of an accident when destroying a pyrotechnic component, check that no-one is in the vicinity.

❏ Destroy the pyrotechnic component by pressing the two push buttons on the tool simultaneously.

2 - Destruction of part removed from the vehicle:

❏ Proceed in the same way as for an airbag (in a stack of old tyres).

Equipment required
Diagnostic tool

Tightening torques ▽	
computer mounting nuts	**8 Nm**

IMPORTANT
To avoid any accidents, make sure you are aware of all risks associated with this operation.

(see **Airbags and pretensioners: Repair precautions**).

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are blocked and the airbag warning light on the instrument panel lights up continuously (ignition on).

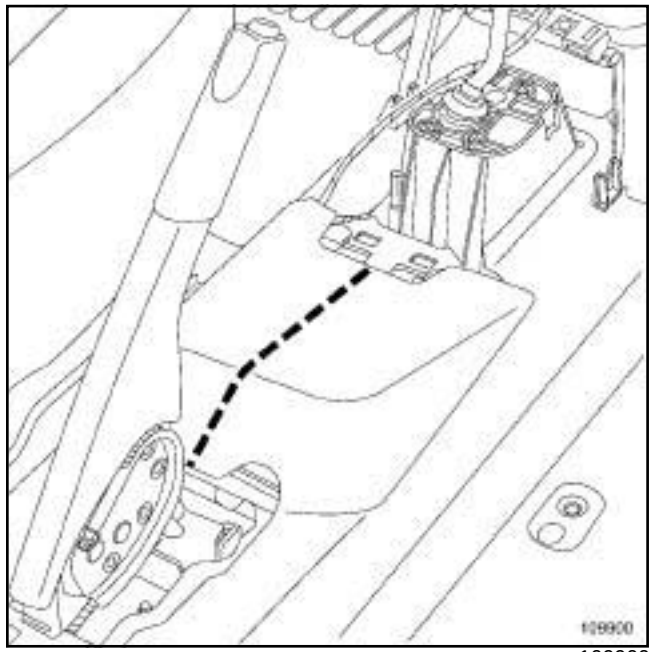
❑ Lock the airbag computer (see **MR 394 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components**).

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the centre console (see **MR 393 Bodywork, 57A, Interior equipment, Centre console: Removal - Refitting**).

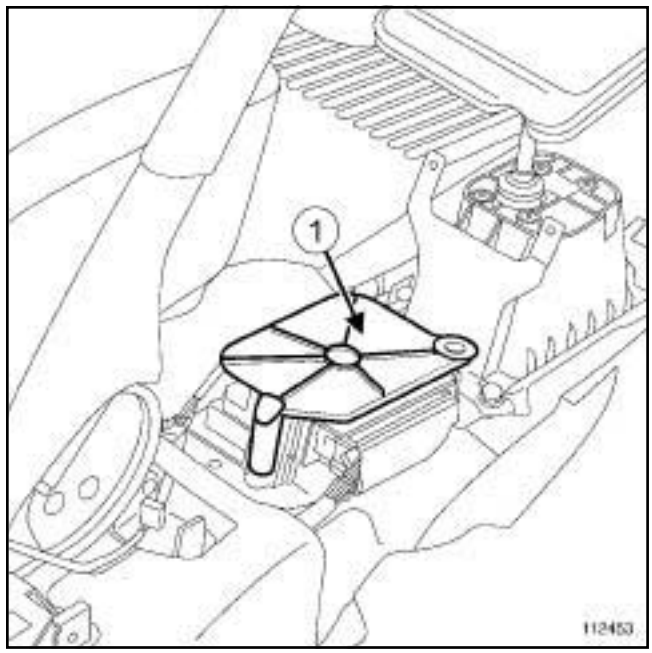
Note:
The seats and carpets do not have to be removed to remove the computer.

II - OPERATION FOR REMOVAL OF PART CONCERNED



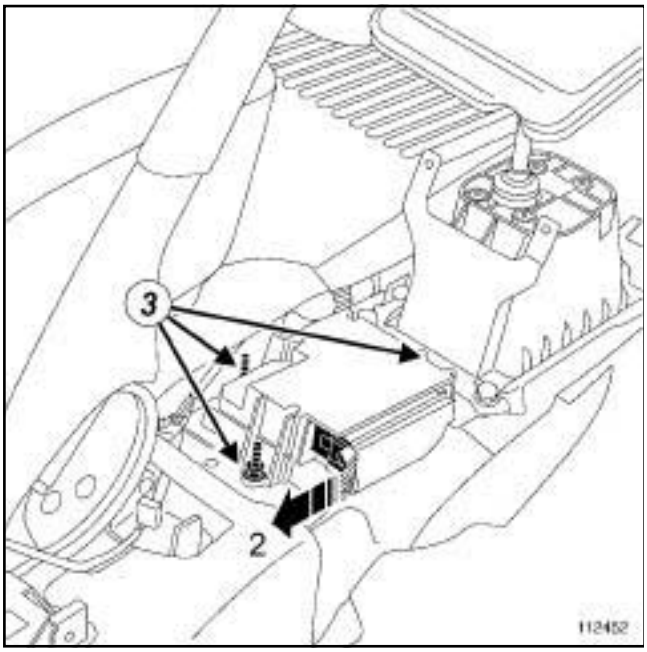
109900

❑ Cut the carpet between the gear lever and the parking brake as shown in the illustration above.



112453

❑ Remove the protective housing from the computer (**1**) .



112452

❑ Unclip the connector latch (**2**) .

❑ Disconnect the connector.

❑ Remove:

- the mounting nuts (**3**) from the computer,
- the computer.

REFITTING

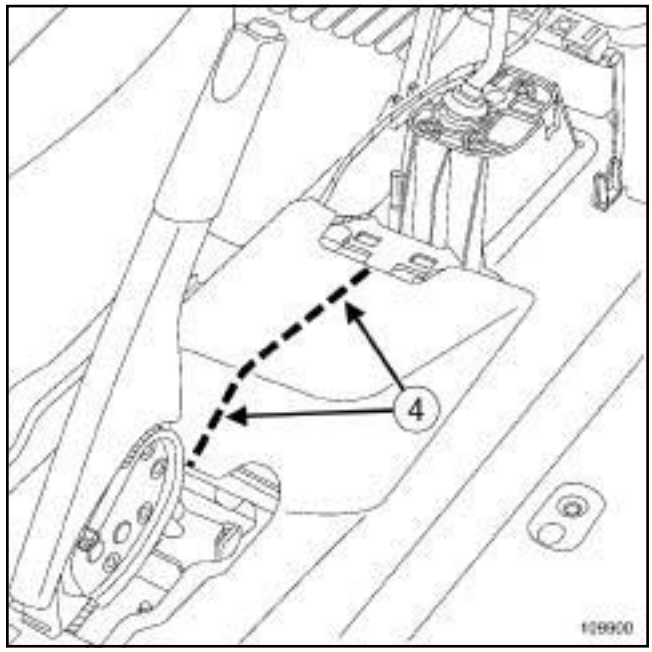
I - REFITTING OPERATION FOR PART CONCERNED

❑ Position the computer.

❑ Torque tighten the **computer mounting nuts (8 Nm)**.

❑ Connect the connector.

❑ Replace the computer's protective housing with a new one.



109900

❑ Attach the carpet at (**4**) with the clips (part number: **77 01 047 751**).

II - FINAL OPERATION.

❑ Refit the centre console (see **MR 393 Bodywork, 57A, Interior equipment, Centre console: Removal - Refitting**).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ If replacing the airbag computer, carry out the necessary operations using the **Diagnostic tool** (see **MR 394 Fault finding, 88C, Airbags and seat belt pretensioners, Fault finding - Replacement of components**).

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ If all is correct, unlock the airbag computer (see **MR 394 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components**).

Equipment required
Diagnostic tool

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Air-bag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

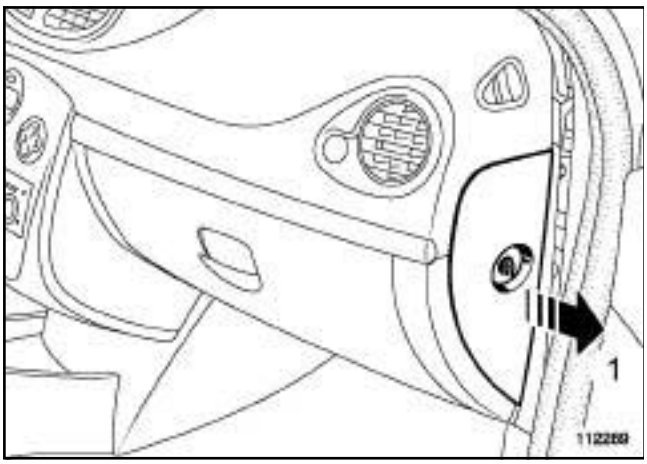
I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel is continuously lit (with the ignition on). Locking the airbag computer also allows the electric steering column lock to be unlocked.

❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

II - OPERATION FOR REMOVAL OF PART CONCERNED

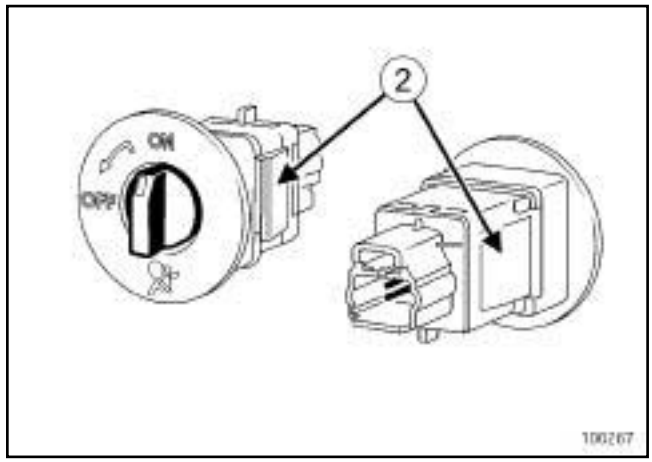


112289

❑ Partially remove the door seal.

❑ Unclip the side panel (**1**) .

❑ Disconnect the connector.



100267

❑ Remove the inhibitor switch on the side panel by pressing on the clips (**2**) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❑ Clip the switch onto the side panel.

❑ Connect the inhibitor switch.

❑ Clip on the side panel.

❑ Refit the door seal.

II - FINAL OPERATION.

❑

IMPORTANT
Check the airbag computer with the diagnostic tool. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ If all is correct, unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

WARNING
The position of the inhibitor switch is only taken into account if the ignition is switched off and the computer is configured correctly.

❑ Check:

- the operation of the switch,
- the « airbag OFF » warning light on the instrument panel.

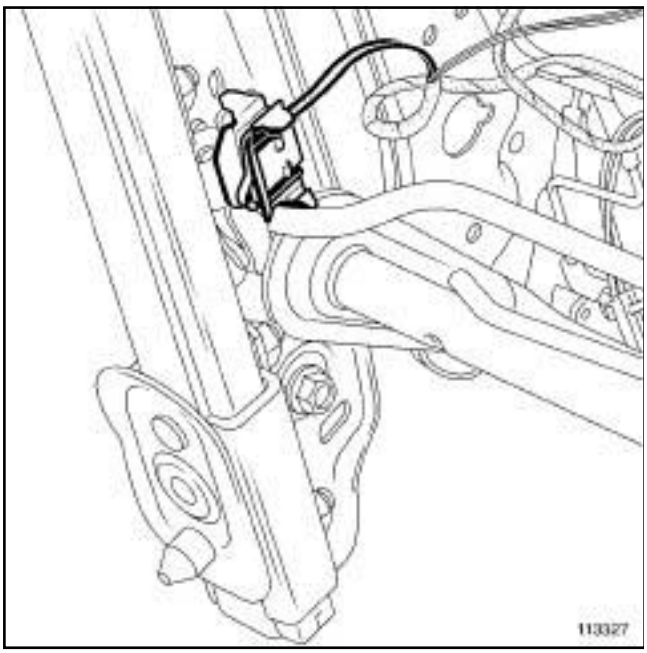
Seat runner switch: Removal - Refitting

Equipment required
Diagnostic tool

The driver's seat has a seat position sensor mounted on the runner. This sensor causes the level of inflation of the driver's frontal airbag to be adjusted (small or large volume) according to the position of the seat on the runner and the violence of the impact.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



113327

❏ The resistance of the seat position sensor can be checked using the **Diagnostic tool** :

- seat forward: sensor resistance = **400 Ω**

- seat back: sensor resistance = **100 Ω**

Note:

The inflation volume of the passenger airbag does not change with the position of the seat on the runner.

Note:

The sensor is part of the seat wiring. If the position sensor malfunctions, replace the seat harness.

❏ Make a note of the harness routing.

❏ Unclip the harness.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

❏ Refit the harness.

❏ Check that the harness is in good condition.

Front lap belt pretensioner: Removal - Refitting

B85 or K85

Equipment required
Diagnostic tool

Tightening torques ▽	
pretensioner mounting bolt	**35 Nm**

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT

It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are blocked and the airbag warning light on the instrument panel lights up continuously (ignition on).

❑

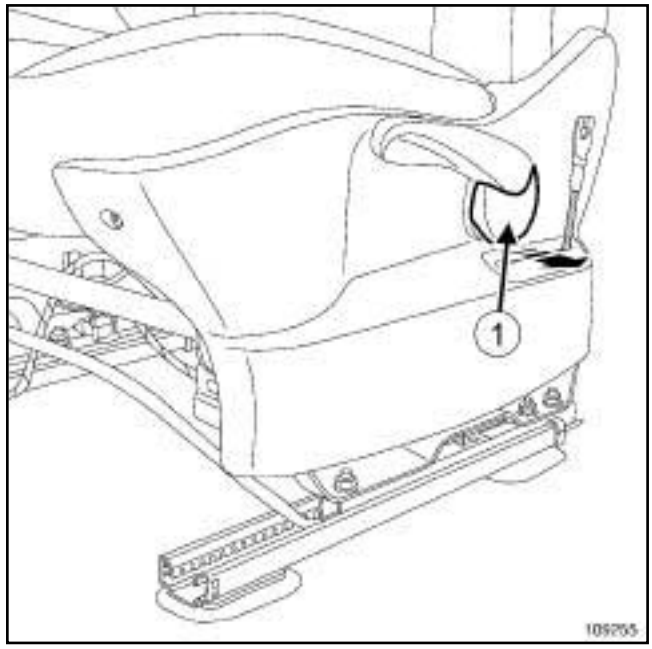
IMPORTANT

Handling pyrotechnic systems (airbags or pretensioners) near to a source of heat or flame is not permitted: there is a risk of triggering the airbags or pretensioners.

❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

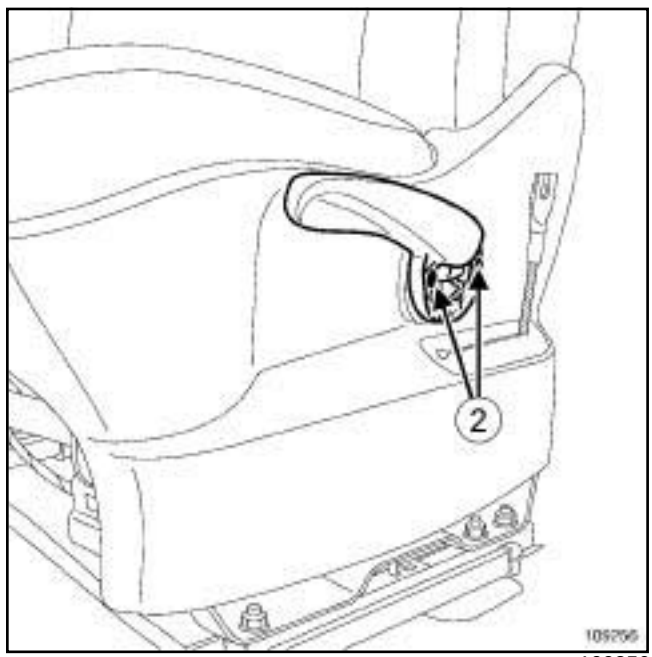
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the complete seat (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners).



109255

❑ Remove the cover (**1**) from the seat height adjustment lever.

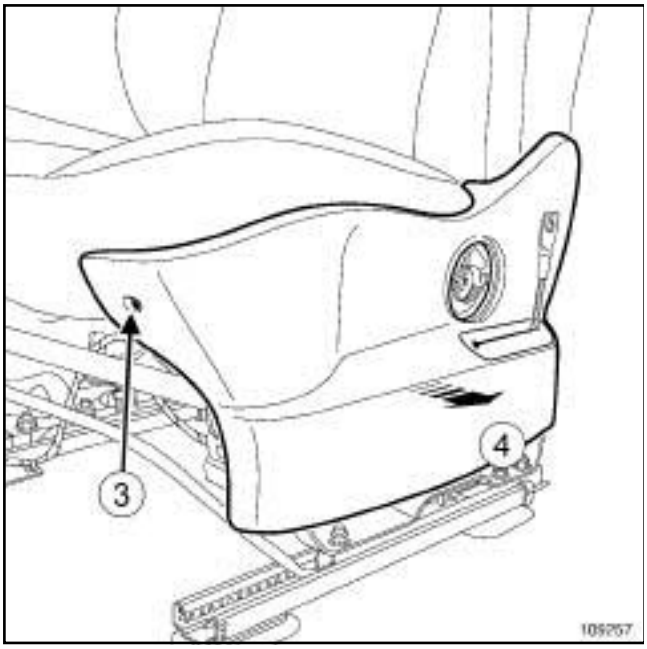


109256

❑ Remove:

- the mounting bolts (**2**) from the height adjustment handle,
- the height adjustment handle.

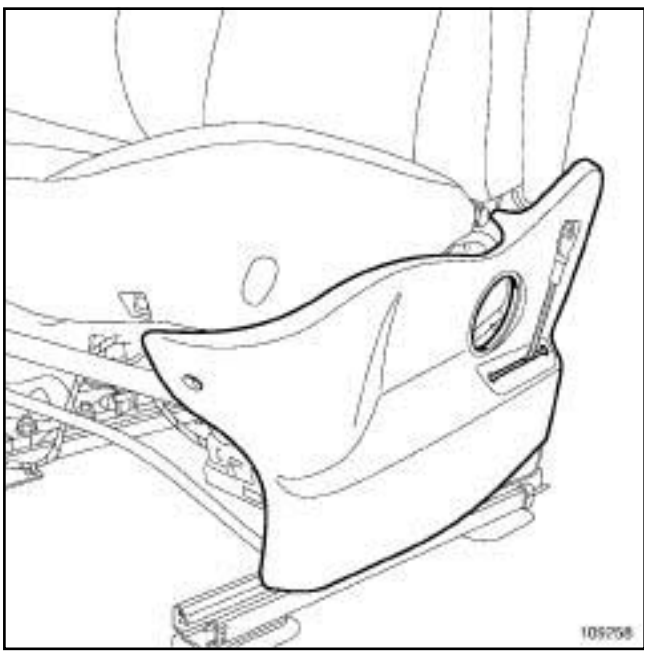
B85 or K85



109257

❏ Remove the mounting bolt (**3**) from the seat cover.

❏ Unclip the front section of the seat housing side panel (**4**) .



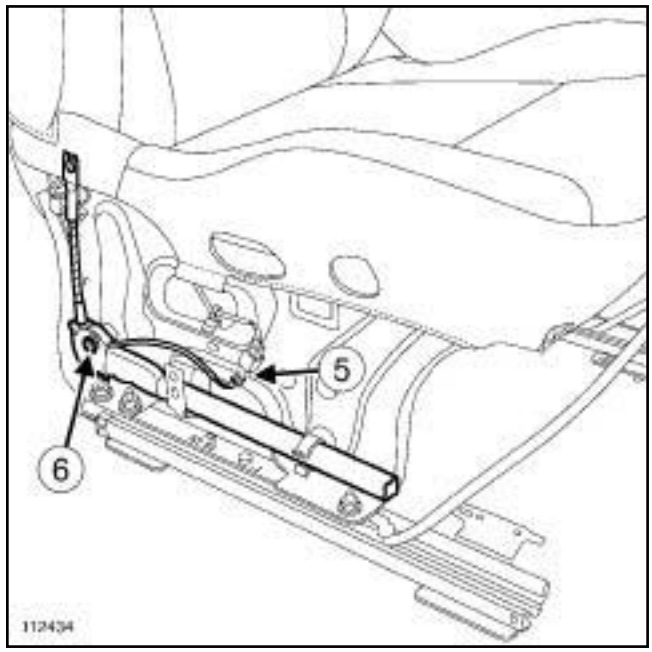
109258

❏ Unclip the rear section of the seat cover.

❏ Disconnect the connectors.

❏ Remove the seat base cover.

II - OPERATION FOR REMOVAL OF PART CONCERNED



112434

❏ Disconnect the connector (**5**) .

❏ Remove:

- the mounting bolt (**6**) from the pretensioner,
- the pretensioner.

REFITTING

I - REFITTING PREPARATION OPERATION

❏ Always replace the pretensioner bolt.

> **IMPORTANT**
> After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.
> (see **Airbag and pretensioners: Precautions for repair) (88C, Airbags and pretensioners**).

II - REFITTING OPERATION FOR PART CONCERNED

❏ Refit the pretensioner.

❏ Torque tighten the **pretensioner mounting bolt (35 Nm)**.

❏ Connect the pretensioner connector.

III - FINAL OPERATION.

❏ Connector the connector to the seat cover.

Front lap belt pretensioner: Removal - Refitting

B85 or K85

❑ Clip:

- the rear section of the seat cover,
- the front section of the seat cover.

❑ Refit:

- the seat cover mounting bolt,
- the seat height adjustment handle,
- the height adjustment handle mounting bolts,
- the height adjustment handle cover.

❑ Refit the front seat (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the accidental triggering of the airbags.

❑ If all is correct, unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Equipment required
Diagnostic tool

Tightening torques ▽	
inertia reel mounting bolt	**23 Nm**
seatbelt upper mounting bolt	**23 Nm**
seatbelt lower mounting bolt	**23 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

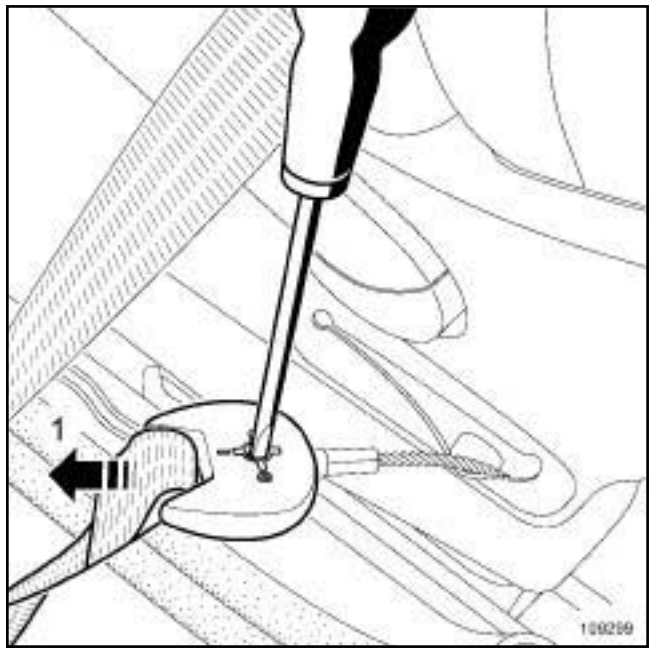
When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

❑ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 394, 88C, Airbags and pretensioners).

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

B85 or K85



109299

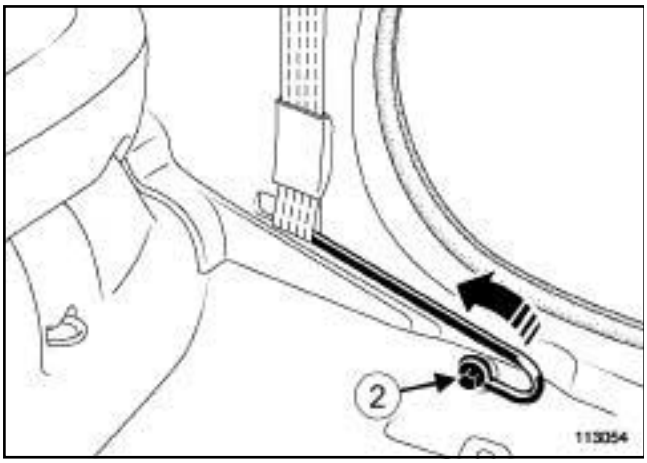
❑ Detach the seat belt strap (**1**) by turning the screw (one quarter of a turn).

❑ Remove the B-pillar lower trim (see **B-pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❑ Partially remove:

- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear door sill lining (see **Rear door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

C85 or S85



113054

❏ Remove the mounting bolt (**2**) .

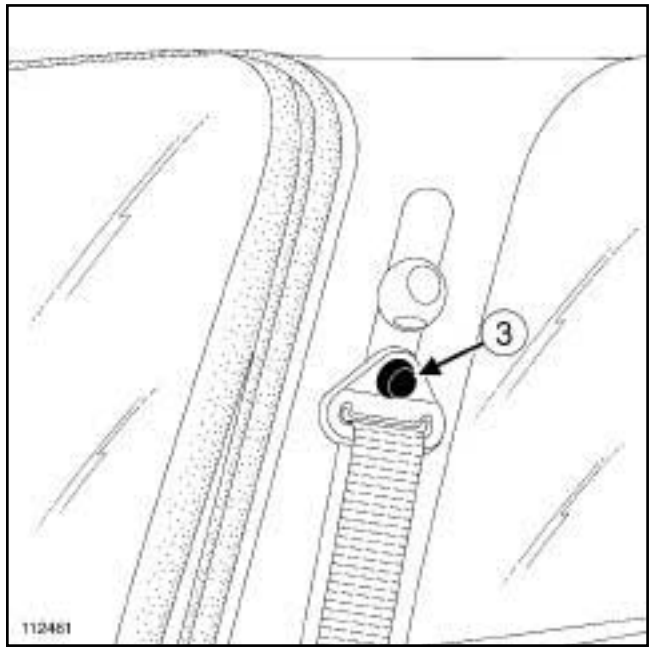
❏ Withdraw the lower seat belt mounting bracket.

❏ Remove:

- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear bench seat (see **Single unit rear bench seat base: Removal - Refitting**) (MR 393, 76A, Rear seat frames and runners),
- the rear panel trim (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED

B85 or K85

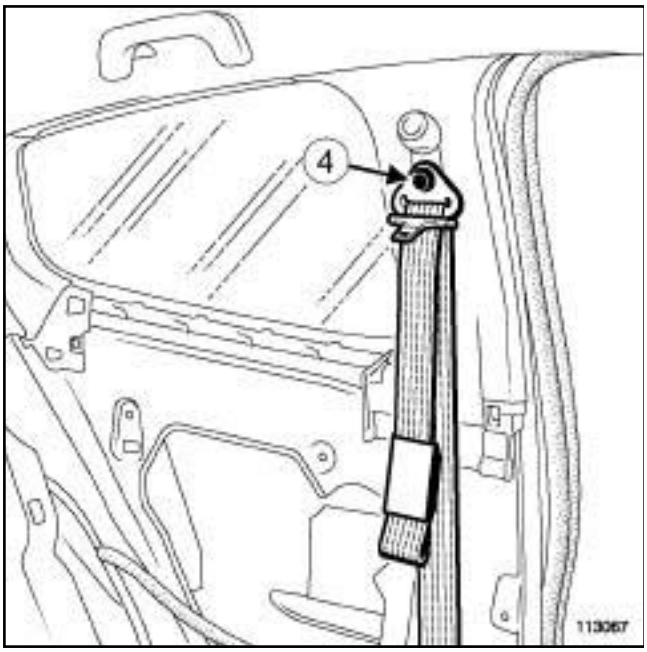


112461

❏ Remove:

- the blanking cover (**3**) ,
- the seat belt upper mounting.

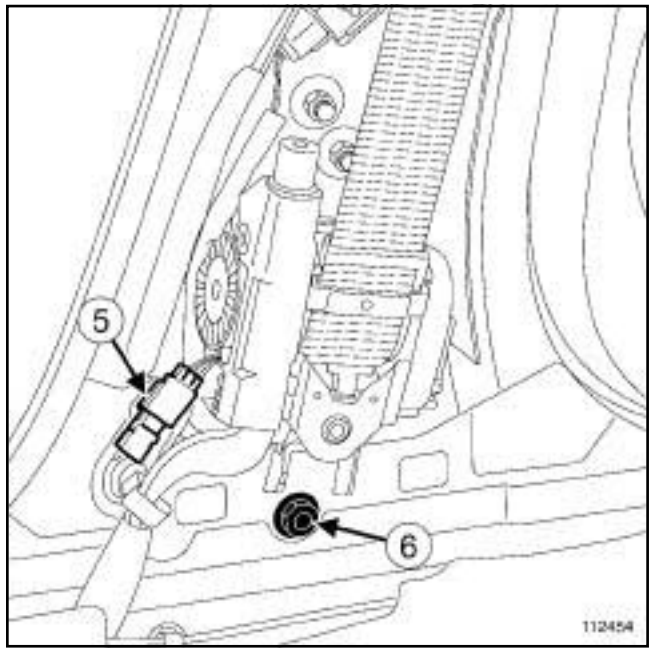
C85 or S85



113067

❑ Remove:

- the blanking cover (**4**) ,
- the seat belt upper mounting.



112454

❑ Always disconnect the connector (**5**) before removing the pyrotechnic inertia reel.

❑ Remove:

- the mounting bolt (**6**) from the inertia reel,
- the pyrotechnic inertia reel.

REFITTING

I - REFITTING PREPARATION OPERATION

❑ Always replace:

- the seat belt height adjustment mechanism.
- the reel mounting bolts.

❑

IMPORTANT
After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.

(see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

II - REFITTING OPERATION FOR PART CONCERNED

❑ Replace the seat belt height adjustment mechanism (see **Seat height adjustment system: Removal - Refitting**) (MR393, 59A, Seat belt height adjustment system).

❑ It is imperative to refit the seat belt inertia reel before reconnecting the connector.

❑ Torque tighten the **inertia reel mounting bolt (23 Nm)**.

❑ Connect the inertia reel connector.

❑ Torque tighten the **seatbelt upper mounting bolt (23 Nm)**.

III - FINAL OPERATION.

B85 or K85

❑ Refit:

- the rear door sill lining (see **Rear door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the B-pillar lower trim (see **B-pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

C85 or S85

❑ Refit:

- the rear panel trim (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the rear bench seat (see **Single unit rear bench seat base: Removal - Refitting**) (MR 393, 76A, Rear seat frames and runners),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (MR 393, 71A, Body internal trim),
- the seat belt lower mounting.

❑ Torque tighten the **seatbelt lower mounting bolt (23 Nm)**.

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❑ If all is correct, unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Rear pyrotechnic inertia reel: Removal - Refitting

B85 or C85 or K85

Equipment required
Diagnostic tool

Tightening torques ▽	
inertia reel mounting bolt	**21 Nm**
seat belt upper mounting bolt	**21 Nm**
seat belt lower mounting bolt	**21 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel is lit continuously (ignition on).

IMPORTANT
Handling pyrotechnic systems (airbags or pretensioners) near to a source of heat or flame is not permitted: there is a risk of triggering the airbags or pretensioners.

❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove the rear bench seat (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (MR 393, 76A, Rear seat frames and runners).

B85 or K85

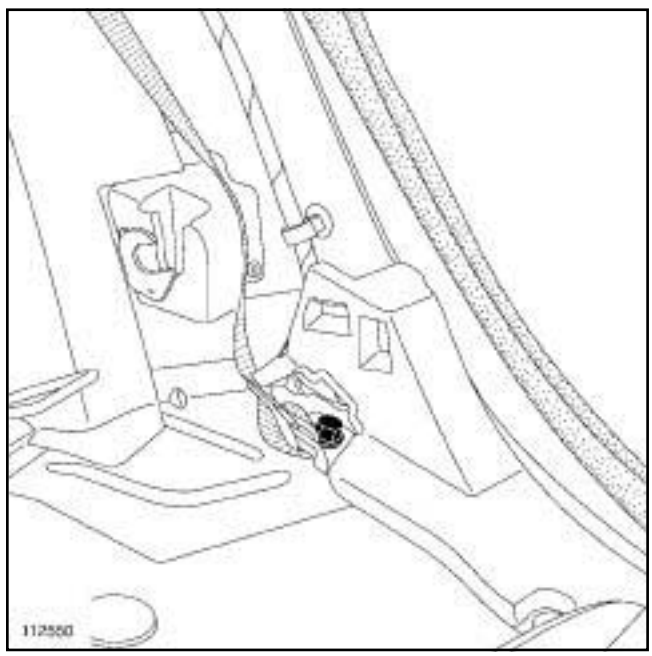
❑ Remove the rear door sill upper lining (see **Rear inner sill upper trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

C85

❑ Remove the rear wing panel trim (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❑ Remove the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED

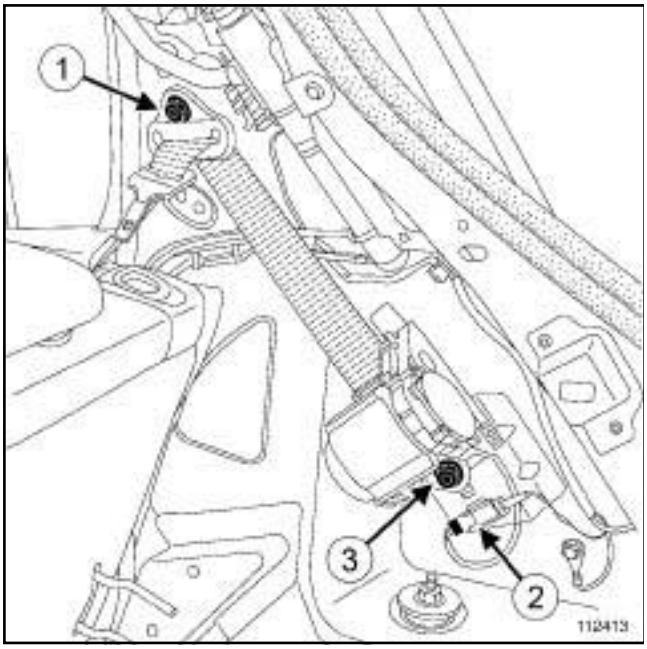


112550

❑ Remove the belt's lower mounting bolt.

Rear pyrotechnic inertia reel: Removal - Refitting

B85 or C85 or K85



112413

❑ Remove the seat belt upper mounting bolt (**1**) .

❑ Disconnect the connector (**2**) from the pyrotechnic inertia reel.

❑ Remove:

- the mounting bolt (**3**) from the inertia reel,
- the pyrotechnic inertia reel.

REFITTING

I - REFITTING PREPARATION OPERATION

❑ Always replace the mounting bolt for the pyrotechnic inertia reel.

❑

IMPORTANT

After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.

(see **Airbag and pretensioners: Precautions for repair) (88C, Airbags and pretensioners**).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the reel.

❑ Torque tighten the **inertia reel mounting bolt (21 Nm)**.

❑ Connect the inertia reel connector.

❑ Torque tighten the **seat belt upper mounting bolt (21 Nm)**.

❑ Torque tighten the **seat belt lower mounting bolt (21 Nm)**.

III - FINAL OPERATION.

❑ Refit the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

B85 or K85

❑ Refit the rear door sill upper lining (see **Rear inner sill upper trim: Removal - Refitting**) (MR 393, 71A, Body internal trim).

C85

❑ Refit the rear wing panel trim (see **Rear panel lining: Removal - Refitting**) (MR 393, 71A, Body internal trim).

❑ Refit the rear bench seat (see **Single unit rear bench seatback: Removal - Refitting**) or (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (MR 393, 76A, Rear seat frames and runners).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the accidental triggering of the airbags.

❑ If all is correct, unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Equipment required
Diagnostic tool

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the triggering lines are inhibited and the airbag warning light on the instrument panel is continuously lit (ignition on). Locking the airbag computer also unlocks the steering column lock.

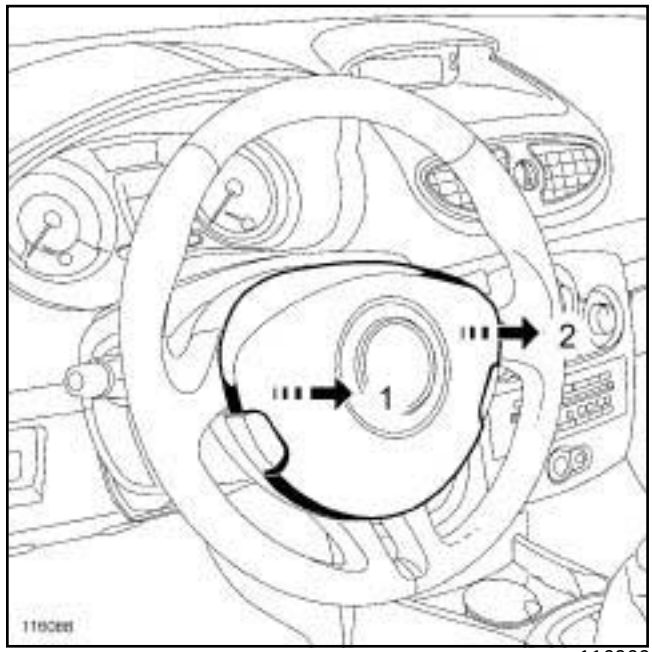
IMPORTANT
The pyrotechnic systems (airbags and pretensioners) must not be exposed to a heat source or naked flame when being handled; there is a risk of triggering the airbags and pretensioners.

❑ Ensure that the vehicle wheels are set straight ahead.

❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

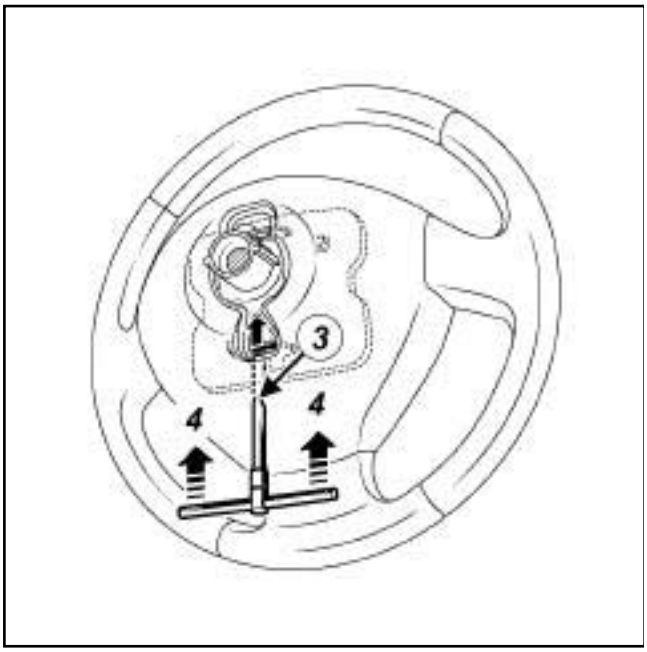
❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



116066

❑ Without removing it, unclip the airbag module partially at (**1**) then (**2**) without pressing on the steering wheel switches.

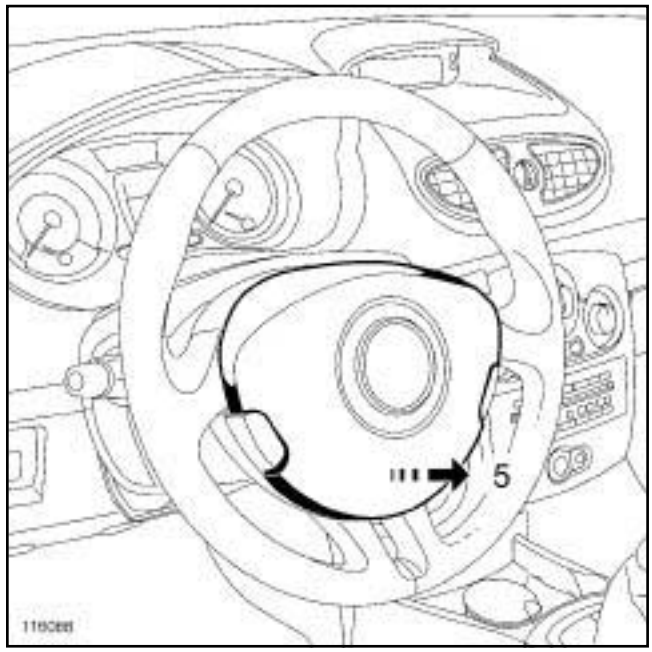


107755

❏ Insert a T-bar with an extension **8 mm** in diameter (e.g.: junior ratchet set, cylindrical tip) into the hole (3) located behind the steering wheel (the seal must be pierced the first time it is removed).

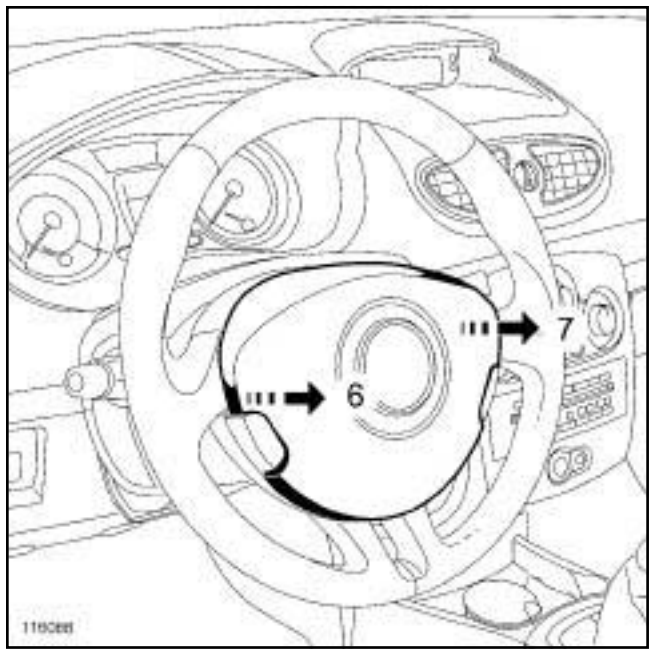
WARNING

To ensure the airbag is not damaged during removal, do not use a tool with a point or a sharp edge.



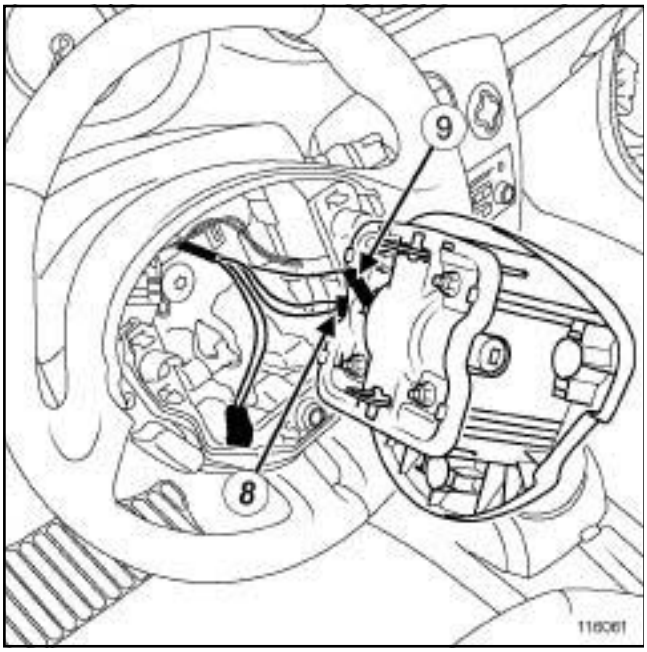
116066

❏ Apply pressure (4) on the clip using the T-bar with the extension, whilst slowly pulling the airbag module towards you (**5**) to unclip the lower section of the airbag.

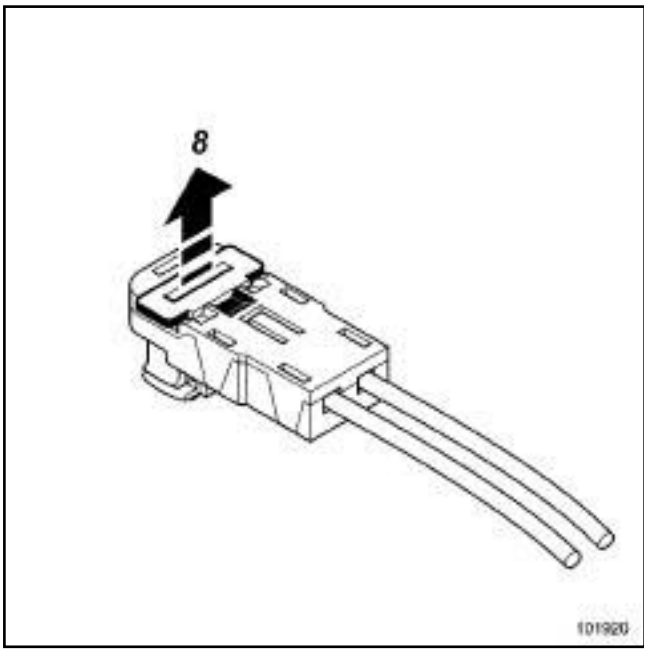


116066

❏ Unclip the airbag module connector at (**6**) and (**7**) .



116061



101920

❑ Disconnect:

- the airbag module connectors by unclipping the safety devices (**8**) ,
- the earth terminal (**9**) .

Note:

The airbag has a connector which short circuits if disconnected, to prevent accidental triggering.

❑ Remove the driver's front airbag.

IMPORTANT

Always fit the airbag with the cushion facing upwards.

REFITTING

I - REFITTING PREPARATIONS OPERATION

❑

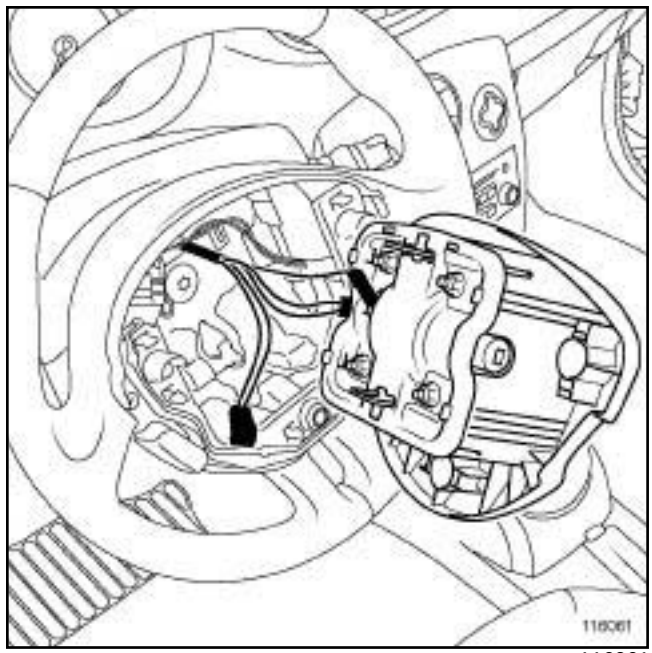
IMPORTANT

After a pyrotechnic component has been triggered, certain parts must be replaced (see 88C Airbags and pretensioners, Airbags and pretensioners: Precautions during repair).

II - REFITTING OPERATION FOR PART CONCERNED

❑ Connect:

- the earth terminal,
- the airbag module connectors.



116061

❑ Refit the airbag module.

WARNING

It is essential to observe the wiring harness routing to prevent it being damaged during refitting.

❑ Clip the airbag module in place.

III - FINAL OPERATION.

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ Unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Equipment required
Diagnostic tool

Tightening torques ▽	
airbag module mounting bolts	**6 Nm**
module mounting bolts on the pillar	**8 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ The passenger airbag is mounted beneath the dashboard facing the front passenger.

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel is continuously lit (with the ignition on). Locking the airbag computer also allows the electric steering column lock to be unlocked.

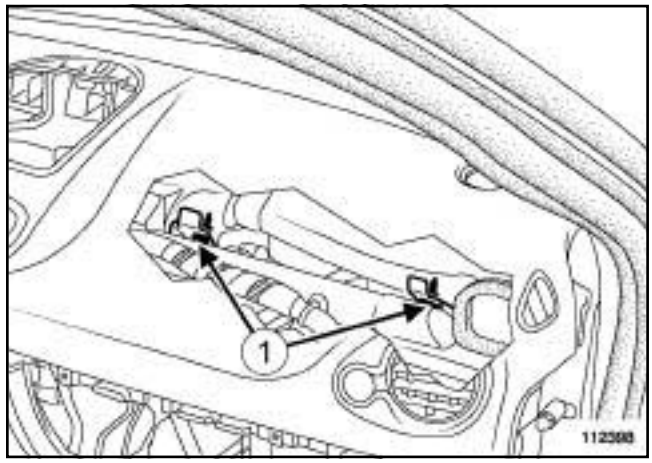
IMPORTANT
Handling pyrotechnic systems (airbags or pretensioners) near to a source of heat or flame is not permitted: there is a risk of triggering the airbags or pretensioners.

❏ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

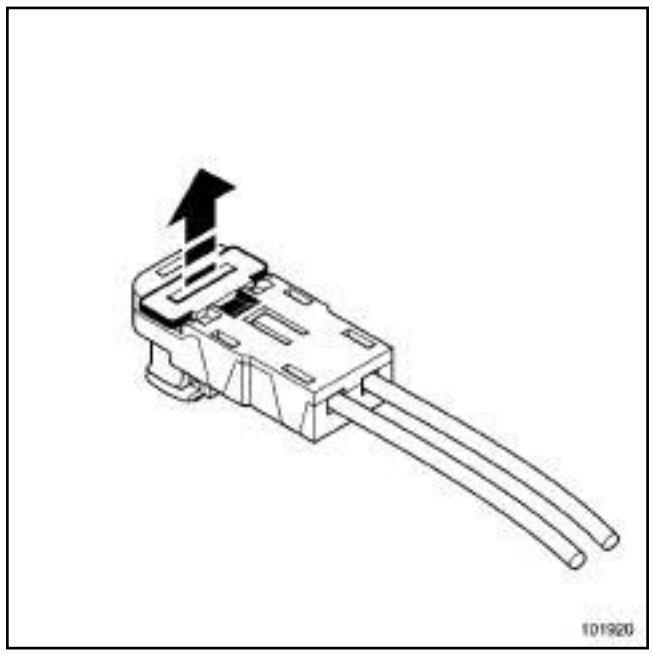
❏ Remove the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112398

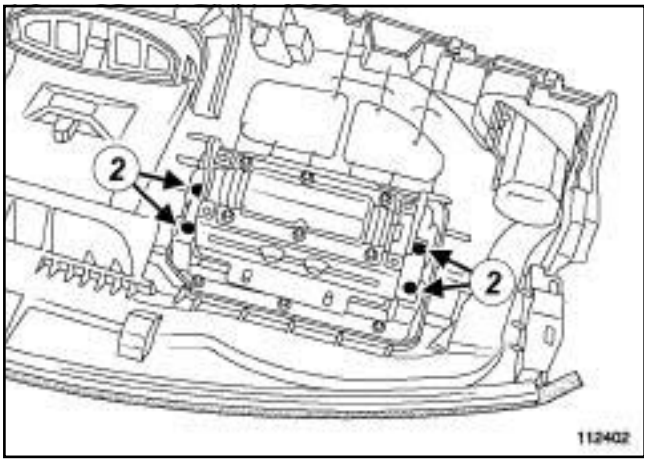
❏ Remove the bolts (**1**) attaching the airbag module to the beam.



101920

❏ Disconnect:

- the airbag module connectors by unclipping the safety devices,
- the earth terminal.



112402

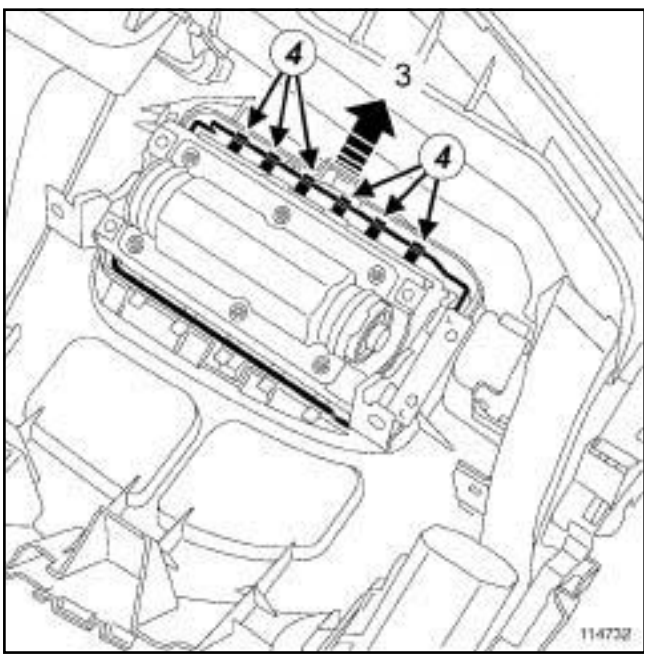
❑ Remove the bolts (**2**) attaching the airbag module to the support.

Note:

The airbag has a connector which short circuits if it is disconnected to prevent accidental triggering.

Note:

Depending on the vehicle's equipment level, the airbag module may be attached to the top of the dashboard with clips (entry level version).



114732

❑ Move the airbag module support (**3**) to detach clips (**4**) .

❑ Remove the support module.

REFITTING

I - REFITTING PREPARATION OPERATION

❑ Replace the parts required, (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

IMPORTANT

When the passenger airbag module is triggered, the consequent damage caused to the attachments always requires the dashboard to be replaced. Do not forget to affix the label forbidding the installation of a rear-facing child seat on the passenger seat to the side of the new dashboard.

II - REFITTING OPERATION FOR PART CONCERNED

❑

IMPORTANT

Whenever the passenger airbag module is removed, it is essential to replace the nuts or bolts that hold the module to the dashboard with new ones.

❑ Torque tighten the **airbag module mounting bolts (6 Nm)**.

III - FINAL OPERATION.

❑ Refit the dashboard (see **Dashboard: Removal - Refitting**) (MR 393, 57A, Interior equipment).

❑ Torque tighten the **module mounting bolts on the pillar (8 Nm)**.

❑ Connect:

- the earth terminal,

- the airbag module connectors.

❑ Check that the connectors are locked correctly.

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ Unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Equipment required
Diagnostic tool

The front chest level side air bag is mounted on the back of each front seat at the door side.

When it inflates, the airbag tears open the cover of the module and the foam and unclips the seat cover.

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the triggering lines are inhibited and the airbag warning light on the instrument panel is continuously lit (ignition on). Locking the airbag computer also unlocks the steering column lock.

IMPORTANT
The pyrotechnic systems (airbags and pretensioners) must not be exposed to a heat source or naked flame when being handled; there is a risk of triggering the airbags and pretensioners.

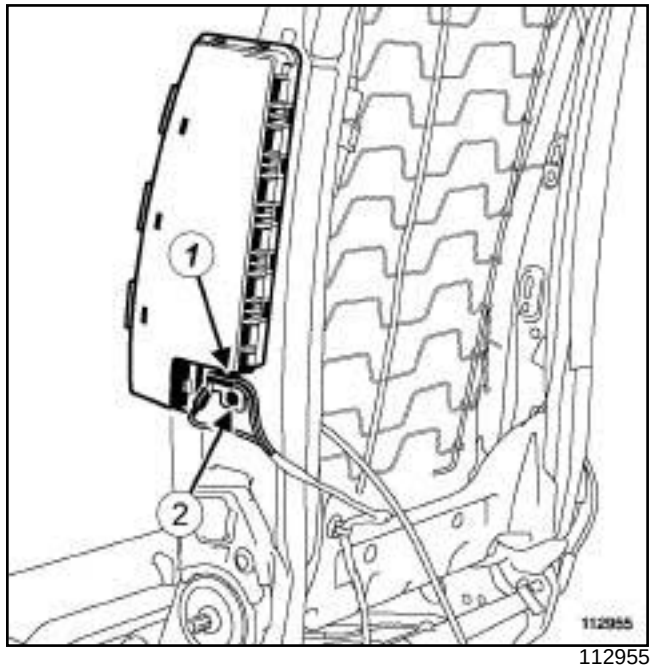
❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

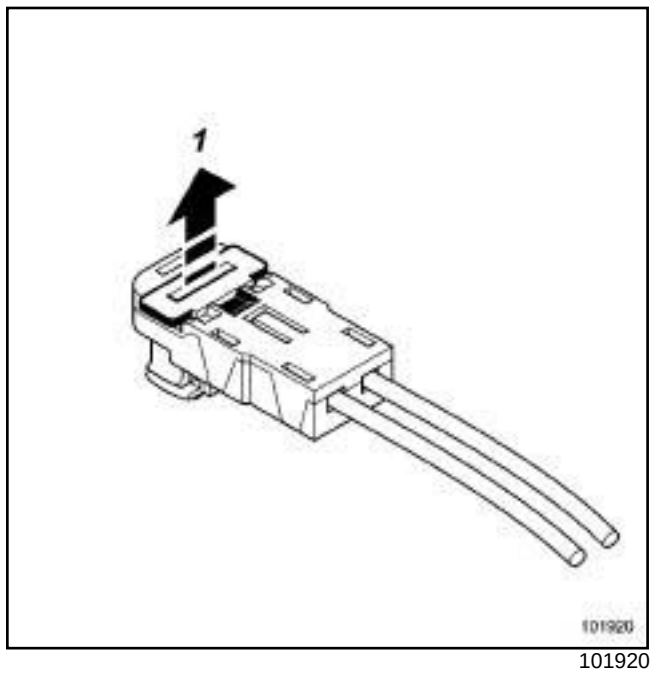
❑ Remove:

- the seat (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),
- the seatback trim (see **Front seatback trim: Removal - Refitting**) (MR 393, 77A, Front seat trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112955



101920

❑ Disconnect:

- the airbag module connector by unclipping the safety device (**1**) ,
- the earth terminal.

❑ Remove:

- the mounting rivet (**2**) ,
- the airbag module.

REFITTING

I - REFITTING PREPARATION OPERATION

❑ Replace the parts required (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

IMPORTANT
Every time a side thorax airbag is removed it must be replaced.

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit a new front side thorax airbag onto the seatback frame.

❑ Attach the airbag to the frame with a rivet (part number: **77 01 060 538**).

❑ Connect:

- the earth terminal,
- the airbag module connector.

❑ Check that the connector is locked correctly.

III - FINAL OPERATION.

❑ Recover the backrest observing the recommendations (see **Front seatback trim: Removal - Refitting**) (MR 393, 77A, Front seat trim).

❑ Refit the seat to the vehicle (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT
Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ Unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT
Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

FRONT SIDE + CURTAIN AIRBAG

Equipment required
Diagnostic tool

Tightening torques ▽	
side curtain airbag mountings	8 Nm

The curtain airbag is mounted behind the headlining and the quarter panel trim.

The airbag detaches the headlining when it inflates.

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Air-bag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏

IMPORTANT
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

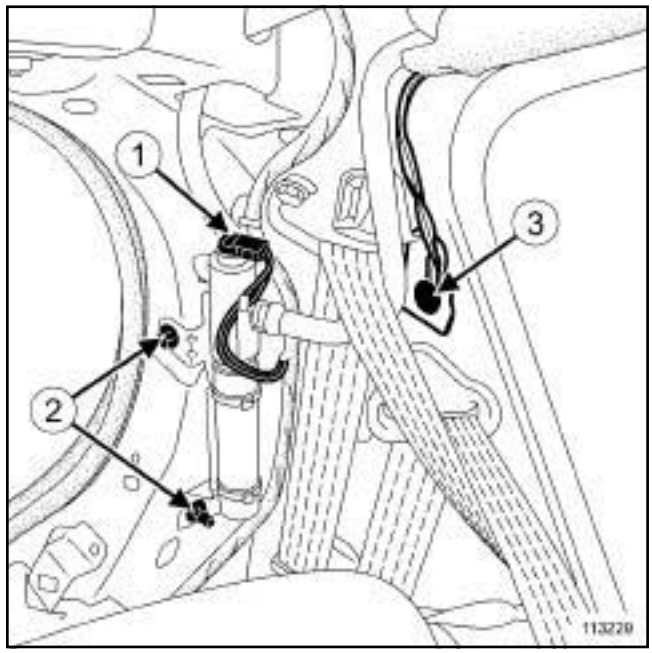
IMPORTANT
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

❏ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

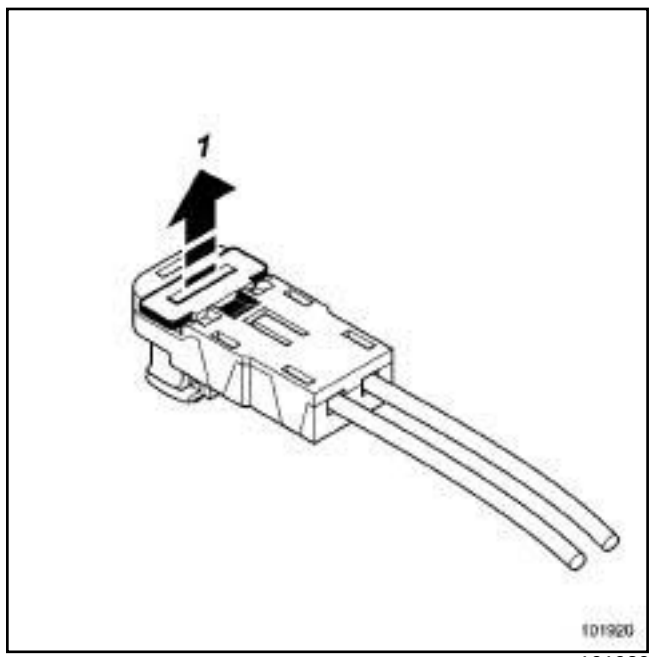
❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



113229



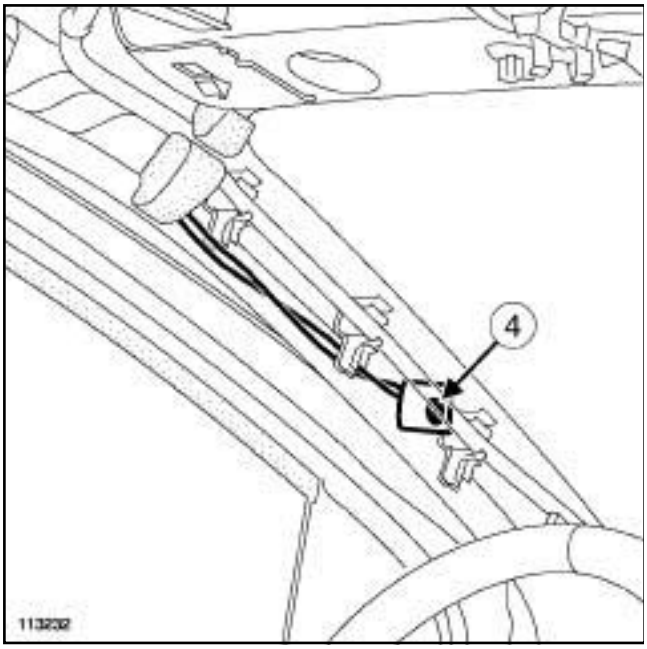
101920

❏ Disconnect the airbag connector by unclipping the safety (**1**) .

❏ Remove the mounting bolts (**2**) from the airbag module.

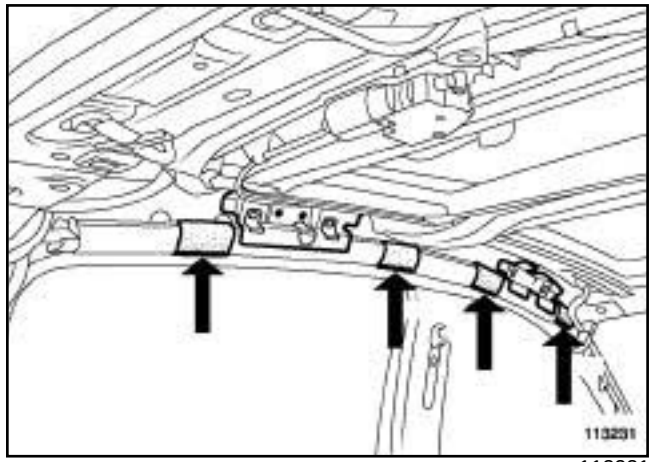
❏ Remove the rear retaining pin (**3**) .

FRONT SIDE + CURTAIN AIRBAG

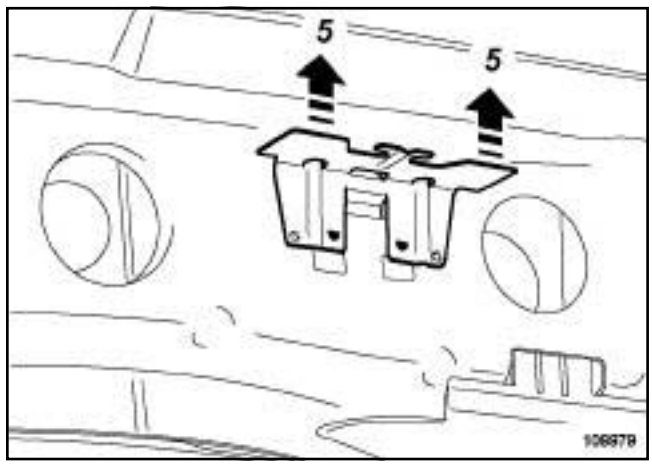


113232

❏ Remove the front retaining pin (**4**) .



113231



109979

❏ The curtain section is clipped to the body at several points.

❏ Remove clips (**5**) .

❏ Remove the curtain airbag.

REFITTING

I - REFITTING PREPARATION OPERATION

❏

IMPORTANT

After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.

(see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

IMPORTANT

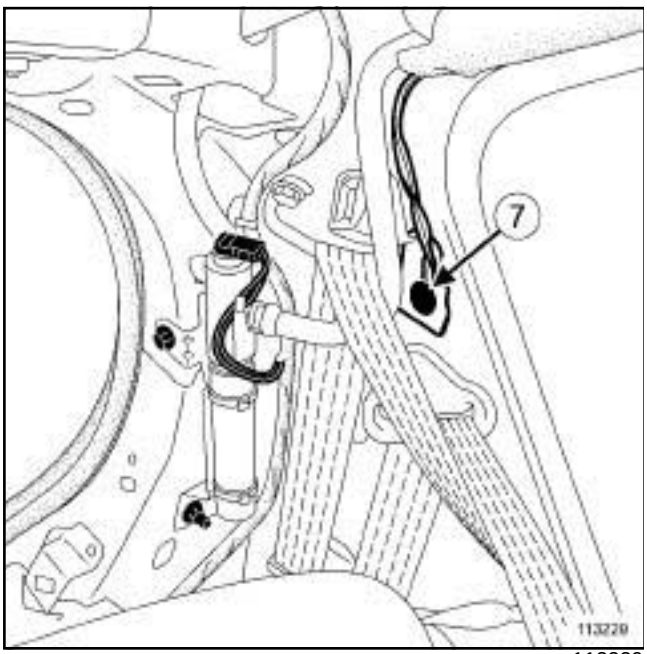
In order to ensure the side curtain airbag clips hold, never refit a side curtain airbag which has been removed.

FRONT SIDE + CURTAIN AIRBAG

❏ Always replace the side curtain airbag.

II - REFITTING OPERATION FOR PART CONCERNED

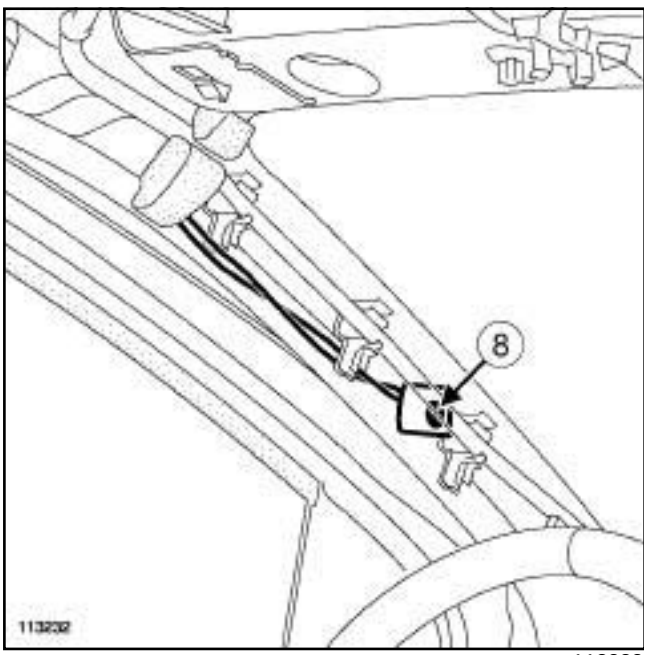
❏ Fit the new side curtain airbag without tightening the mountings.



113229

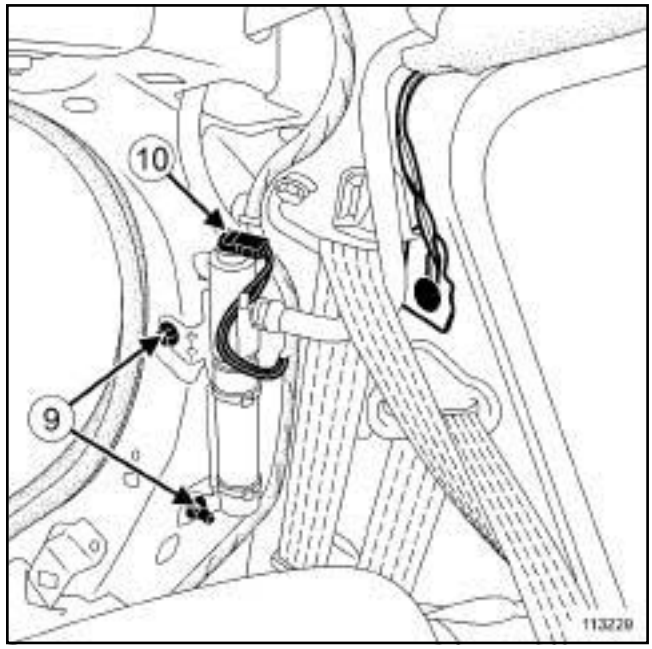
❏ Fit all the clips, working from the rear of the vehicle to the front.

❏ Fit the rear retaining pin (**7**) .



113232

❏ Fit the front retaining pin (**8**) .



113229

❏ Torque tighten the **side curtain airbag mountings (8 Nm)** (**9**) .

❏ Connect the side curtain airbag connector (**10**) , checking that it is correctly locked.

III - FINAL OPERATION.

❏ Refit the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❏ Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

Anti-submarining airbag: Removal - Refitting

C85

Equipment required
Diagnostic tool

Tightening torques ▽	
anti-submarining airbag mounting bolts	**21 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❑

IMPORTANT
It is essential to lock the airbag computer using the **Diagnostic tool** before starting the removal. When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel is continuously lit (with the ignition on).

IMPORTANT
Handling pyrotechnic systems (airbags or pretensioners) near to a source of heat or flame is not permitted: there is a risk of triggering the airbags or pretensioners.

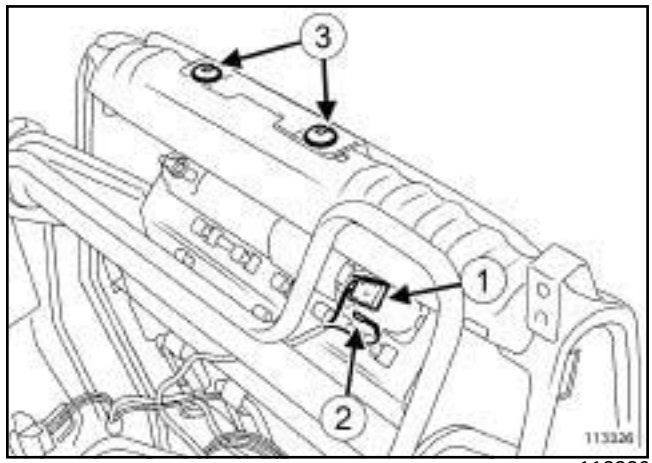
❑ Lock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

❑ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❑ Remove:

- the seat (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners),
- the seat base trim (see **Front seat base trim: Removal - Refitting**) (MR 393, 77A, Front seat trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED

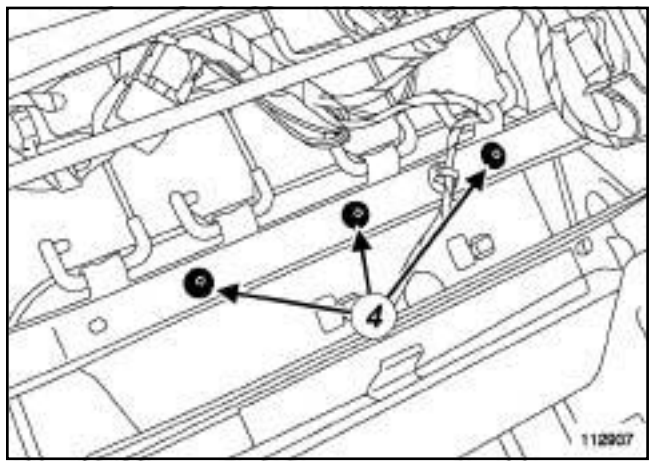


113326

❑ Disconnect:

- the airbag module connector (**1**) ,
- the earth terminal (**2**) .

❑ Remove the airbag module mounting bolts (**3**) .



112937

❑ Remove:

- the airbag module (**4**) mounting bolts,
- the airbag module.

REFITTING

I - REMOVAL PREPARATION OPERATION

❑ Replace the parts required (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-6**) .

II - REFITTING OPERATION FOR PART CONCERNED

❑ Refit the anti-submarining airbag.

C85

❑ Torque tighten the **anti-submarining airbag mounting bolts (21 Nm)** starting with bolts ***(3)*** and ***(4)*** .

❑ Connect:

- the earth terminal,
- the airbag module connector, checking that it is locked correctly.

III - FINAL OPERATION.

❑ Refit:

- the seat base trim (see **Front seat base trim: Removal - Refitting**) (MR 393, 77A, Front seat trim),
- the seat (see **Complete front seat: Removal - Refitting**) (MR 393, 75A, Front seat frames and runners).

❑ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

Check the airbag computer using the **Diagnostic tool**. Any failure to follow these instructions may lead to system malfunctions, or even result in the incorrect triggering of the airbags.

❑ Unlock the airbag computer (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and seat belt pretensioners).

IMPORTANT

Do not reuse the pyrotechnic components. The pretensioners or airbags on a vehicle which is to be scrapped must be destroyed.

(see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

FRONT SIDE AIRBAG or FRONT SIDE + CURTAIN AIRBAG

Equipment required
Diagnostic tool

Tightening torques ▽	
side impact sensor bolt	**8 Nm**

IMPORTANT
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Air-bag and pretensioners: Precautions for the repair**, page **88C-6**) .

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏

IMPORTANT
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

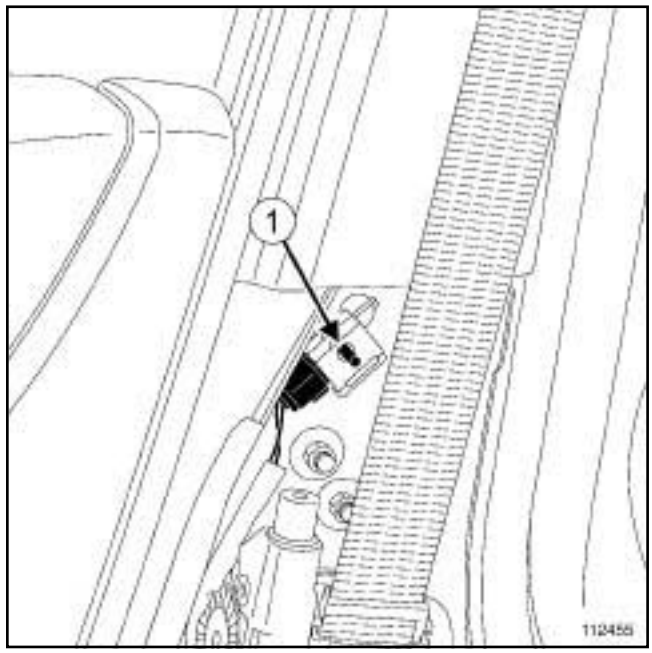
When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

❏ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

❏ Disconnect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

❏ Remove the lower B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



112455

❏ Disconnect the connector.

❏ Undo the sensor bolt (**1**) .

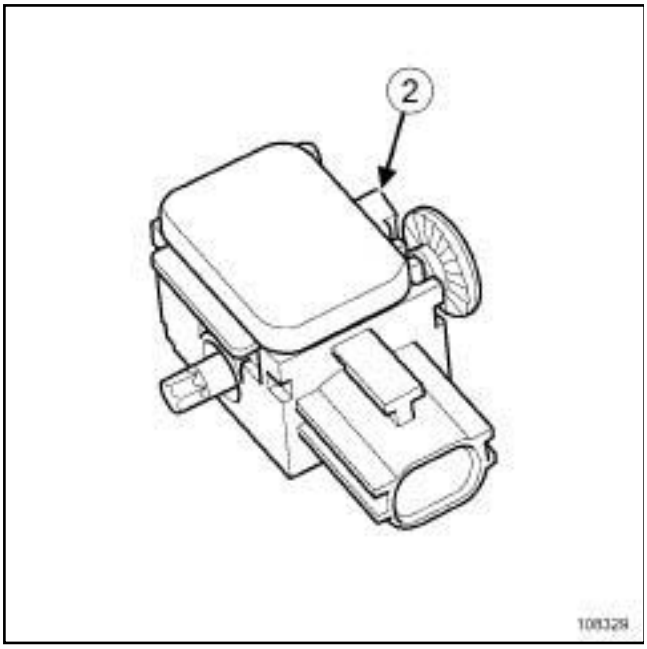
❏ Remove the sensor.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Always replace the side impact sensors.

FRONT SIDE AIRBAG or FRONT SIDE + CURTAIN AIRBAG



108329

❏ Position the sensor using its positioning pin (**2**) .

❏ Torque tighten the **side impact sensor bolt (8 Nm)**.

❏ Connect the connector.

II - FINAL OPERATION.

❏ Refit the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

❏ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-1**) .

IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

❏ Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

Note:

These sensors do not require programming with the **Diagnostic tool**.

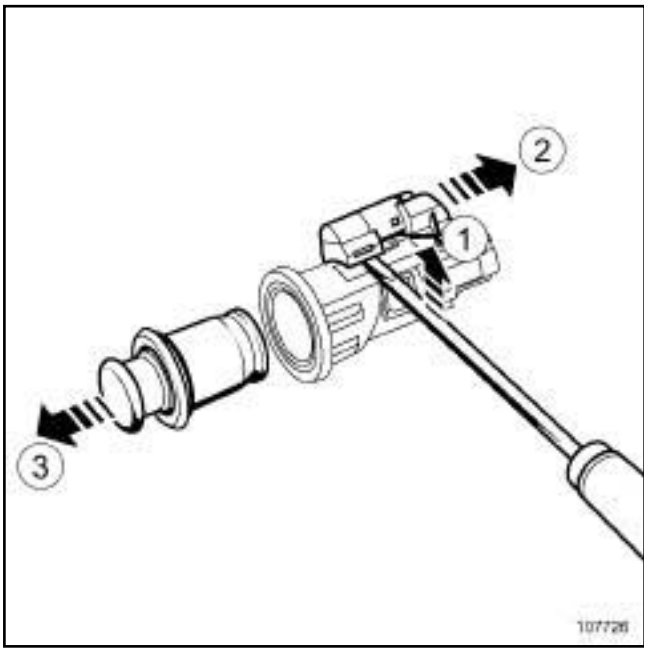
WITH SMOKING ACCESSORIES

REMOVAL

I - REMOVAL PREPARATION OPERATION

❏ Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).

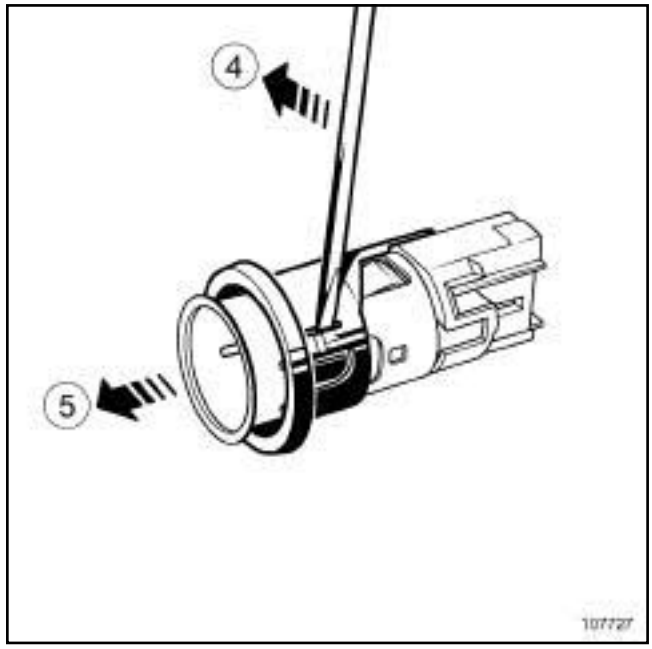
II - OPERATION FOR REMOVAL OF PART CONCERNED



107726

❏ Unclip the bulb holder using a flat-blade screwdriver at (**1**) and (**2**) .

❏ Remove the cigarette lighter (**3**) .



107727

❏ Keep the plastic support unlocked at (**4**) .

❏ Pull the cigarette lighter support at (**5**) .

❏ Unclip the plastic support from the console.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

❏ Clip the plastic support into the console.

❏ Refit the cigarette lighter support.

❏ Refit the cigarette lighter.

❏ Clip the bulb support onto the cigarette lighter.

II - FINAL OPERATION.

❏ Refit the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).